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Water resources data for the 1971 water year for Massachusetts, New Hampshire, Rhode Island, amd Vermont consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs. This report contains discharge records for 226 gaging stations; stage and contents for 30 lakes and reservoirs; water quality for 20 gaging stations. Also included are 83 low-flow and 102 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Massachusetts, New Hampshire, Rhode Island, and Vermont.

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Water Resources Data for Massachusetts New Hampshire Rhode Island Vermont

Water Year 1971

Part 1. Surface Water Records

Part 2. Water Quality Records

MARCH 3, 1849

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DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MANHRIVT-71-1

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Vermont Department of Highways
Corps of Engineers, U.S. Army
Environmental Protection Agency
National Park Service, U.S. Department of the Interior
City of Providence, Department of Public Works

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1973

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[Symbols after station name designate type of data: (c), chemical; (t), water temperature; (s), sediment]

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WATER RESOURCES DATA FOR MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT, 1971

PART 1. SURFACE-WATER RECORDS
PART 2. WATER-QUALITY RECORDS

INTRODUCTION

Water-resources data for the 1971 water year for Massachusetts, New Hampshire, Rhode Island, and Vermont, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface and ground water, are given in this report. In Part 1, records are included for 226 gaging stations of which 220 are streamflow discharge stations and 6 are reservoir or lake stations; also included are records of monthend contents for 41 reservoirs, and records for 118 low-flow partial-record stations, 102 crest-stage partial-record stations, and 30 miscellaneous sites. In Part 2, records on quality of surface water (chemical, temperature, and sediment) are included for 16 continuous-record stations, 30 partial-record stations, and 92 miscellaneous sites. Records of chemical analyses also are given for 26 ground-water sites. Locations of gaging and water-quality stations are shown in Figure 1. A few pertinent stations (not included above) in bordering States and Province of Quebec are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of C. E. Knox, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Massachusetts, New Hampshire, Rhode Island, and Vermont.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State- or District-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 8, 9, and 11.

COOPERATION

The U.S. Geological Survey and organizations of the States of Massachusetts, New Hampshire, Rhode Island, and Vermont have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1954. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

Massachusetts: State Water Resources Commission, A. W. Brownell, chairman, C. F. Kennedy, director and chief engineer of Division of Water Resources, and T. C. McMahon, director of Division of Water Pollution Control; State Department of Public Works, Bruce Campbell, commissioner, J. J. Lyons, research and materials engineer; and F. C. Schwelm, deputy chief engineer of Division of Waterways; Metropolitan District Commission, John Sears, commissioner, Allan Grieve, Jr., director and chief water-supply engineer of Water Division, and F. T. Bergin, chief engineer of Construction Division.

New Hampshire: State Water Resources Board, G. M. McGee, chairman.

Rhode Island: State Department of Natural Resources, E. C. Hayes, Jr., acting director, C. B. Dunwoody, chief of Division of Planning and Development, J. M. Cronan, deputy chief of Division of Fish and Wildlife; State Department of Transportation, F. J. Fazzano, director, Morris Chorney, executive director, F. H. Dutra, chief of highway planning division; State Water Resources Board, A. A. DiMartino, chairman; city of Providence, Department of Public Works, L. P. McGarry, director.

Vermont: State Department of Water Resources, M. L. Johnson, commissioner; State Department of Highways, J. T. Gray, commissioner.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records published herein for 44 gaging stations; by the Environmental Protection Agency, for 10 water-quality stations; and by the National Park Service, U.S. Department of the Interior, for 1 water-quality station.

Assistance in collecting records was also furnished by New England Power Co., Western Massachusetts Electric Co., and Green Mountain Power Corp.

Organizations that supplied data are acknowledged in station descriptions.

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States), and the records are obtained and compiled in a manner equally acceptable in both countries. These stations are designated as "International gaging stations."

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows:

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet or 646,317 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in a water and will vary with water compositions, concentration or reagent, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Color is expressed in units of the platinum-cobalt scale proposed by Hazen (1892, p. 427-428). A unit of color is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. The extent to which water is colored by material in solution is reported as part of the water analysis because a significant color in water may indicate the presence of organic material that may have some bearing on the dissolved solids content.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Curie is a unit for measuring radioactivity. One curie equals that quantity of any radioactive isotope undergoing 3.7×10^{10} disintegration per second.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane and enclosed by a topographic divide, from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G. H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging-station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per liter (UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in the table below. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the weight of sediment per liter of water-sediment mixture.

Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})*	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

* Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

pH is a symbol denoting the relative concentration of hydrogen ions in a solution; pH values range from 0 to 14 — the lower the value, the more acid is the solution; i.e., the more hydrogen ions it contains.

Picocurie (PC) is a unit for measuring radioactivity. One picocurie is equivalent to 1 trillionth of a curie. See Curie.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or by volume, that is discharged in a given time. It is computed by multiplying discharge time mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published District annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all main-stream stations are listed before the first main-stream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 01127880, which appears just to the left of the station name, includes the 2-digit part number "01" plus the 6-digit downstream order number "127880." The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic Slope basins) and Part 4 (St. Lawrence River basin). The records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

WELL NUMBER

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The first 6 digits denote the degrees, minutes, and seconds of latitude followed by a letter denoting north or south. Seven digits following the letter denote degrees, minutes, and seconds of longitude. The last digit is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

A local well-numbering system is also used in this report. All wells are numbered consecutively within each town.

EXPLANATION OF SURFACE WATER DATA

Collection and computation of data

The base data collected at gaging stations consists of records of stage and measurements of discharge of streams, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from a water-stage recorder that gives either a tape punched at 15-, 30-, or 60-minute intervals or a continuous graph of the fluctuations. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U. S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrologists and gage observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At one station the stage-discharge relation is affected by changing stage; at this station the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by hydrologists and gage observers, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily reservoir stages may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Tables of daily mean gage heights are included for some reservoir stations.

Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or stage, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge, the maximum gage height, and the minimum discharge if there is little or no regulation are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge if it is abnormally low). In the first paragraph, headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record," the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder (digital or graphic), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, to the availability of Water Quality records, and to a recording rain gage at the gaging station is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information obtained later. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), and in inches (line headed "IN.").

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for most stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parenthesis, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, evaporation, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled "Surface Water Supply of the United States" there is a list of the numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Massachusetts, New Hampshire, Rhode Island, and Vermont for the period October 1960 to September 1965 are in Water Supply Papers 1901, 1902, and 1912.

Two series of summary reports entitled "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950, and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for the stations included in this report are compiled in Water-Supply Papers 1301, 1302, and 1307 through September 1950, and in 1721, 1722, and 1727 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form, and many statistical analyses have been made.

EXPLANATION OF WATER-QUALITY DATA

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 60-minute intervals or on a continuous graph.

Water-quality information is presented for chemical quality, microbiology, radio chemistry, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, pH, and pesticide and herbicide content. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent daily maximum, minimum, and mean temperature. Fluvial-sediment information is given for suspended-sediment discharges and concentrations.

Prior to the 1968 water year, data for chemical constituents and concentrations [illegible] suspended sediment were reported in parts per million (ppm), and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l), and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Celsius to degrees Fahrenheit, see the following table:

Degrees Celsius (°C) to degrees Fahrenheit (°F)
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	8.0	46	15.5	60	23.5	74	31.0	88	39.0	102
.5	33	8.5	47	16.0	61	24.0	75	31.5	89	39.5	103
1.0	34	9.0	48	16.5	62	24.5	76	32.0	90	40.0	104
1.5	35	9.5	49	17.0	63	25.0	77	33.0	91	40.5	105
2.0	36	10.0	50	18.0	64	25.5	78	33.5	92	41.0	106
3.0	37	10.5	51	18.5	65	26.0	79	34.0	93	41.5	107
3.5	38	11.0	52	19.0	66	26.5	80	34.5	94	42.0	108
4.0	39	11.5	53	19.5	67	27.0	81	35.0	95	43.0	109
4.5	40	12.0	54	20.0	68	28.0	82	35.5	96	43.5	110
5.0	41	13.0	55	20.5	69	28.5	83	36.0	97	44.0	111
5.5	42	13.5	56	21.0	70	29.0	84	36.5	98	44.5	112
6.0	43	14.0	57	21.5	71	29.5	85	37.0	99	45.0	113
6.5	44	14.5	58	22.0	72	30.0	86	38.0	100	45.5	114
7.0	45	15.0	59	23.0	73	30.5	87	38.5	101	46.0	115

* °C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 3.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

At chemical-quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Ground-water quality does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. Most large streams have a small diurnal temperature change; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where monitors are installed, the record consists of daily maximum, minimum, and mean temperature. Where thermographs are located, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

At one station, suspended-sediment concentrations are determined from samples collected daily by using a depth-integrating cable-suspended sampler from a fixed sampling point. During periods of high or rapidly changing flow, samples are taken twice or more often throughout the day. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically with depth-integrating cable-suspended or hand samplers. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Massachusetts, New Hampshire, Rhode Island, and Vermont are listed below. Data for the North Atlantic slope basins are given in Part 1; data for the St. Lawrence River basin are given in Part 4.

Water-supply paper numbers and parts, water years 1953-68

Year	Part 1	Year	Part 1	Part 4
1953	1290	1961	1881	-
1954	1350	1962	1941	-
1955	1400	1963	1947	-
1956	1450	1964	1954	-
1957	1520	1965	1961	-
1958	1571	1966	1991	-
1959	1641	1967	2011	2012
1960	1741	1968	*2091	*2094

* In preparation.

HYDROLOGIC CONDITIONS

At the beginning of the water year, runoff was excessive (in the upper quartile of record) in central New Hampshire and southwestern Vermont, deficient (in the lower quartile of record) in Rhode Island, central and eastern Massachusetts, and coastal New Hampshire, and in the normal range elsewhere in the district.

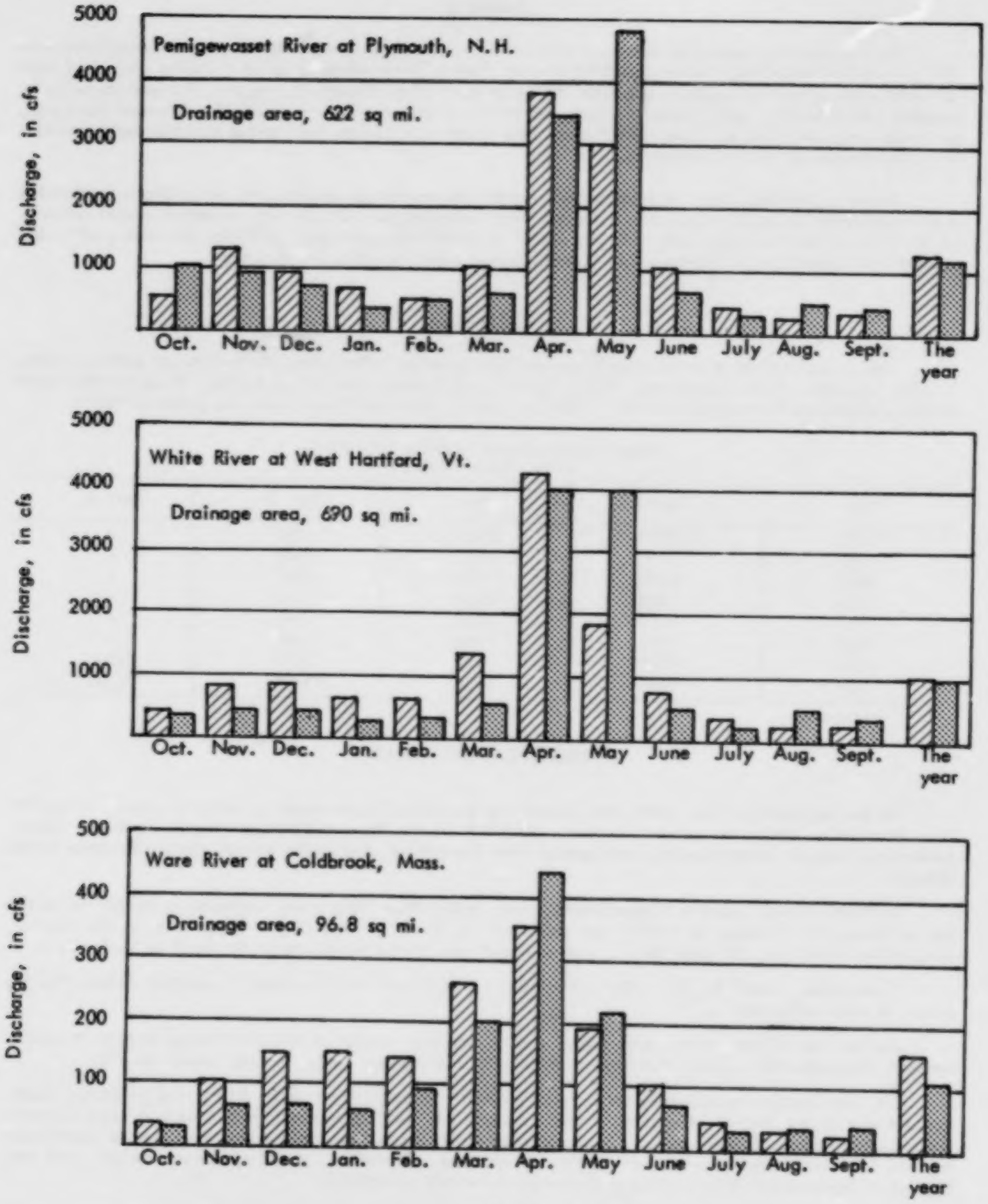
In Rhode Island, eastern Massachusetts, and coastal New Hampshire, cumulative runoff was in the normal range for October to March and deficient for April to September. Elsewhere in the district, cumulative runoff was deficient for October to March and in the normal range for April to September.

Cumulative runoff for the water year was in the normal range except in central Massachusetts, where it was deficient.

At the end of the water year, runoff was in the low-normal or deficient range except in southwestern Massachusetts where, although still only in the normal range, it was above median.

The snow pack was unusually heavy over much of the district this year. At the end of March, water content was record high in some areas in the Connecticut River basin and near maximum in some northern areas in the Merrimack River basin. However, moderately warm days, cold nights, and lack of significant rainfall combined to produce gradual melting of this snow. Therefore, spring runoff was orderly with less than usual lowland flooding, and peak discharges were not outstanding.

Figure 1 on page 12 for which records of three, long-term, index gaging stations were used, shows a comparison of the monthly and yearly mean discharge for the 1971 water year with the median discharge for the period 1941-70.



Explanation

▨ Median of monthly and yearly mean discharge for period 1941-70.

▩ Monthly and yearly mean discharge for 1971 water year.

Figure 1.--Comparison of discharge at three long-term index gaging stations during 1971 water year with median discharge for period 1941-70.

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PART 1. SURFACE WATER RECORDS

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NORTH ATLANTIC SLOPE BASINS

ANDROSCOGGIN RIVER BASIN

01052500 Diamond River near Wentworth Location, N.H.

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, on left bank 1.0 mile upstream from mouth and 1.6 miles north of Wentworth Location.

DRAINAGE AREA.--153 sq mi.

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,275 ft (from topographic map).

AVERAGE DISCHARGE.--30 years, 338 cfs (30.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,040 cfs May 11 (gage height, 7.72 ft); minimum, 24 cfs Aug. 20, 21 (gage height, 1.31 ft).
Period of record: Maximum discharge, 8,630 cfs June 16, 1943 (gage height, 10.66 ft), from rating curve extended above 3,900 cfs; minimum, 6.8 cfs Aug. 27, 28, 1949, Sept. 1, 1952 (gage height, 0.81 ft).

REMARKS.--Records excellent except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	523	186	270	120	78	88	79	1,540	339	121	93	157
2	377	175	253	120	77	86	81	1,450	281	330	134	112
3	562	166	240	115	76	84	90	1,600	277	142	187	90
4	1,120	156	215	110	76	82	150	2,970	277	92	334	78
5	621	152	183	110	76	81	125	2,860	242	71	136	70
6	427	149	170	115	76	80	110	2,060	197	60	83	76
7	335	141	165	110	76	79	105	2,410	182	55	395	104
8	281	141	160	110	75	78	100	2,580	633	49	254	84
9	243	130	160	100	74	78	100	2,820	507	43	128	72
10	211	125	155	97	75	77	105	3,000	293	42	87	90
11	192	128	155	93	76	77	145	3,430	214	37	65	66
12	185	135	155	90	75	76	320	3,570	178	34	61	67
13	183	128	150	86	73	76	640	3,390	154	32	52	225
14	215	121	150	84	78	76	951	2,360	135	56	44	405
15	521	120	150	82	91	80	758	1,520	122	91	38	469
16	1,150	126	150	80	120	200	553	1,620	112	61	36	255
17	587	119	150	77	160	500	453	1,680	100	46	33	171
18	403	111	150	75	140	330	462	1,660	90	93	29	166
19	317	109	150	73	120	160	614	1,710	81	69	27	166
20	264	116	150	72	105	120	1,240	1,620	75	66	25	134
21	237	820	145	70	98	105	1,640	1,340	80	61	24	147
22	220	677	145	69	93	94	1,570	1,250	186	45	41	171
23	256	690	145	68	90	89	1,090	1,080	117	36	122	140
24	678	563	145	67	87	86	768	694	89	31	200	119
25	527	337	170	66	85	84	863	573	98	30	120	101
26	371	218	165	66	88	83	968	932	248	30	70	88
27	306	262	160	66	92	82	962	794	139	32	52	79
28	263	258	150	77	90	81	1,230	705	89	42	253	70
29	236	287	140	82	------	80	1,390	562	69	32	761	69
30	214	261	130	81	------	80	1,290	470	62	32	353	74
31	197	------	125	79	------	80	------	405	------	33	249	------
TOTAL	12,222	7,107	5,101	2,710	2,520	3,452	18,952	54,655	5,666	1,994	4,486	4,115
MEAN	394	237	165	87.4	90.0	111	632	1,763	189	64.3	145	137
MAX	1,150	820	270	120	160	500	1,640	3,570	633	330	761	469
MIN	183	109	125	66	73	76	79	405	62	30	24	66
CFSM	2.58	1.55	1.08	.57	.59	.73	4.13	11.5	1.24	.42	.95	.90
IN.	2.97	1.73	1.24	.66	.61	.84	4.61	13.29	1.38	.48	1.09	1.00

CAL YR 1970 TOTAL 139,210 MEAN 381 MAX 4,760 MIN 22 CFSM 2.49 IN 33.85
WTR YR 1971 TOTAL 122,980 MEAN 337 MAX 3,570 MIN 24 CFSM 2.20 IN 29.90

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-11	2100	7.72	4,040				

01053500 Androscoggin River at Errol, N. H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mile downstream from Errol Dam, 0.4 mile northeast of Errol, and 0.6 mile upstream from Clear Stream.

DRAINAGE AREA.--1,045 sq mi.

PERIOD OF RECORD.--January 1905 to current year. October 1922 to November 1943, monthly discharge only, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

AVERAGE DISCHARGE.--66 years, 1,877 cfs (24.39 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,760 cfs May 12 (gage height, 4.60 ft); minimum daily, 991 cfs May 16.
Period of record: Maximum daily discharge, 16,100 cfs May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed. Instantaneous maximum discharge not available prior to Dec. 9, 1943.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 28,100,000,000 cu ft), with final regulation at Errol Dam.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,560	1,790	1,590	1,810	1,670	1,710	1,920	2,840	2,020	1,560	1,630	1,680
2	1,640	1,890	1,640	1,820	1,640	1,730	1,890	2,940	2,010	1,410	1,590	1,710
3	1,490	1,930	1,680	1,810	1,660	1,770	1,820	3,010	1,990	1,540	1,460	1,700
4	1,350	1,920	1,700	1,790	1,640	1,770	1,770	3,460	1,990	1,490	1,310	1,680
5	1,530	1,900	1,670	1,790	1,640	1,800	1,730	4,220	2,130	1,460	1,550	1,680
6	1,600	1,900	1,720	1,790	1,640	1,930	1,620	4,480	2,240	1,580	1,550	1,670
7	1,630	1,920	1,820	1,770	1,630	1,960	1,490	4,440	2,110	1,600	1,440	1,700
8	1,670	1,930	1,820	1,730	1,600	1,970	1,400	3,880	1,670	1,680	1,540	1,720
9	1,720	1,920	1,820	1,750	1,590	1,970	1,380	4,620	1,680	1,680	1,630	1,730
10	1,710	1,890	1,770	1,760	1,600	1,970	1,360	4,500	2,080	1,630	1,640	1,760
11	1,750	1,880	1,790	1,770	1,580	1,990	1,330	4,240	2,180	1,710	1,600	1,760
12	1,770	1,900	1,860	1,790	1,560	1,970	1,330	4,700	2,150	1,720	1,540	1,730
13	1,770	1,900	1,660	1,820	1,560	1,980	1,360	4,360	2,240	1,730	1,550	1,620
14	1,720	1,900	1,840	1,820	1,560	1,970	1,410	3,540	2,170	1,710	1,530	1,500
15	1,720	1,900	1,800	1,810	1,600	1,960	1,450	1,990	2,020	1,680	1,700	1,410
16	1,550	1,890	1,860	1,790	1,630	1,970	1,450	991	1,970	1,670	1,760	1,580
17	1,530	1,890	1,810	1,770	1,630	2,010	1,380	1,060	2,020	1,640	1,760	1,540
18	1,600	1,890	1,770	1,790	1,580	2,060	1,310	1,050	2,010	1,670	1,750	1,540
19	1,670	1,890	1,770	1,790	1,580	2,060	1,320	1,020	1,960	1,680	1,760	1,580
20	1,790	1,850	1,800	1,810	1,560	2,050	1,470	1,150	2,050	1,590	1,700	1,680
21	1,810	1,500	1,840	1,820	1,580	1,980	1,820	1,230	2,080	1,670	1,660	1,660
22	1,810	1,490	1,850	1,810	1,620	1,930	2,150	1,300	1,970	1,730	1,680	1,670
23	1,730	1,470	1,850	1,800	1,670	1,920	2,350	1,240	1,970	1,720	1,590	1,710
24	1,350	1,460	1,850	1,760	1,680	1,920	2,380	1,710	1,990	1,640	1,540	1,710
25	1,270	1,560	1,850	1,710	1,670	1,920	2,350	1,890	1,790	1,660	1,620	1,710
26	1,460	1,660	1,760	1,720	1,640	1,930	2,390	2,660	1,360	1,680	1,680	1,730
27	1,580	1,750	1,760	1,730	1,600	1,940	2,420	2,690	1,440	1,700	1,670	1,760
28	1,640	1,720	1,760	1,810	1,680	1,940	2,520	2,720	1,580	1,700	1,380	1,760
29	1,730	1,640	1,730	1,800	------	1,940	2,660	2,880	1,660	1,700	1,300	1,790
30	1,730	1,620	1,810	1,730	------	1,940	2,740	2,330	1,640	1,600	1,470	1,800
31	1,720	------	1,820	1,700	------	1,930	------	2,070	------	1,600	1,540	------
TOTAL	50,600	53,750	55,270	55,170	45,310	59,890	53,970	85,211	58,170	50,830	49,120	50,270
MEAN	1,632	1,792	1,783	1,780	1,618	1,932	1,799	2,749	1,939	1,640	1,585	1,676
MAX	1,810	1,930	1,860	1,820	1,680	2,060	2,740	4,700	2,240	1,730	1,760	1,800
MIN	1,270	1,460	1,590	1,700	1,560	1,710	1,310	991	1,360	1,410	1,300	1,410
MEAN†	1,936	1,169	977	431	524	638	4,225	9,293	1,027	121	653	478
CFSM†	1.85	1.12	.94	.41	.50	.61	4.04	8.89	.98	.12	.62	.46
IN.†	2.13	1.25	1.08	.48	.52	.70	4.51	10.25	1.10	.13	.72	.51

CAL YR 1970 TOTAL 860,800 MEAN 2,358 MAX 7,300 MIN 1,220 MEAN† 1,988 CFSM† 1.90 IN† 25.80
WTR YR 1971 TOTAL 667,561 MEAN 1,829 MAX 4,700 MIN 991 MEAN† 1,800 CFSM† 1.72 IN† 23.38

† Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes.

01054000 Androscoggin River near Gorham, N.H.

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, on right bank at Pulsifer Rips, 2.2 miles downstream from Dead River and 4.0 miles upstream from Gorham.

DRAINAGE AREA.--1,363 sq mi.

PERIOD OF RECORD.--October 1913 to current year. October 1922 to February 1929, monthly discharge only, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 miles upstream at different datum.

AVERAGE DISCHARGE.--58 years, 2,435 cfs (24.26 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 9,060 cfs May 5 (gage height, 7.24 ft); minimum daily, 1,640 cfs Aug. 14.
Period of record: Maximum daily discharge, 20,000 cfs June 18, 1917, Apr. 30, 1923; minimum daily, 795 cfs Mar. 15, 1948.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (combined usable capacity, 28,100,000,000 cu ft), with final regulation at Errol Dam 35 miles upstream. Diurnal fluctuation caused by powerplant 0.8 mile upstream.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,830	1,960	1,960	1,930	1,870	1,910	2,300	5,400	2,610	2,260	1,720	1,820
2	1,880	2,070	1,950	1,970	1,830	1,930	2,330	5,440	2,430	2,650	1,830	1,870
3	2,000	2,100	2,000	2,010	1,730	1,960	2,380	5,740	2,400	1,980	1,930	1,850
4	2,370	2,120	2,070	1,970	1,720	1,980	2,450	8,290	2,390	1,860	1,970	1,790
5	2,190	2,110	1,970	2,010	1,730	1,970	2,400	8,660	2,330	1,710	1,820	1,780
6	2,050	2,120	2,010	1,990	1,750	2,010	2,320	7,760	2,450	1,660	1,780	1,770
7	1,930	2,060	1,900	1,950	1,750	2,130	2,230	7,600	2,530	1,750	1,750	1,850
8	1,920	2,100	1,950	1,890	1,750	2,140	2,060	7,180	2,570	1,780	1,730	1,820
9	1,940	2,120	2,090	1,820	1,710	2,190	1,940	7,590	2,430	1,840	1,760	1,820
10	1,930	2,080	2,090	1,920	1,720	2,160	1,950	7,590	2,330	1,760	1,760	1,850
11	1,880	2,050	2,000	1,950	1,720	2,200	2,090	7,440	2,470	1,730	1,800	1,800
12	1,990	2,070	1,920	1,930	1,720	2,210	2,520	7,660	2,450	1,810	1,790	1,860
13	1,980	2,090	2,050	1,860	1,710	2,200	3,020	7,660	2,400	1,800	1,770	1,890
14	1,980	2,070	2,140	1,910	1,740	2,230	3,340	6,740	2,500	1,890	1,640	1,940
15	1,960	2,080	2,040	2,000	1,730	2,270	3,170	4,780	2,360	1,810	1,670	2,130
16	2,150	2,100	1,960	1,970	1,780	2,430	2,860	2,950	2,220	1,820	1,880	1,970
17	2,060	2,080	2,060	1,960	1,840	2,600	2,600	2,710	2,170	1,780	1,870	1,930
18	1,900	2,080	2,040	1,860	1,840	2,630	2,480	2,540	2,210	1,800	1,920	1,830
19	1,920	2,070	2,020	1,900	1,790	2,630	2,790	2,550	2,090	1,840	1,870	1,670
20	1,930	2,080	2,020	1,910	1,790	2,610	3,960	2,420	2,060	1,880	1,810	1,810
21	2,020	2,560	1,980	1,920	1,780	2,530	4,810	2,420	2,280	1,810	1,730	1,850
22	2,020	2,480	1,990	1,970	1,790	2,430	5,160	2,440	2,300	1,800	1,740	1,850
23	2,050	2,290	2,100	1,980	1,810	2,350	5,020	2,550	2,180	1,860	1,860	1,860
24	2,460	2,330	2,020	2,000	1,840	2,330	4,460	2,300	2,140	1,790	1,780	1,880
25	2,110	2,050	2,060	1,980	1,850	2,290	4,570	2,510	2,150	1,760	1,720	1,870
26	1,920	1,950	2,020	1,980	1,870	2,270	4,880	3,030	2,000	1,780	1,750	1,850
27	1,970	2,040	1,990	1,940	1,840	2,280	4,750	4,120	1,650	1,810	1,800	1,900
28	1,940	2,070	1,960	1,930	1,840	2,290	5,110	3,630	1,760	1,800	1,930	1,880
29	1,980	2,050	1,930	1,920	------	2,320	5,360	3,740	1,820	1,810	2,050	1,920
30	1,990	2,020	1,910	1,930	------	2,340	5,270	3,540	1,770	1,850	1,830	1,890
31	1,980	------	1,940	1,950	------	2,340	------	2,780	------	1,740	1,840	------
TOTAL	62,230	63,450	62,140	60,210	49,840	70,160	100,580	151,760	67,450	57,220	56,000	55,800
MEAN	2,007	2,115	2,005	1,942	1,780	2,263	3,353	4,895	2,248	1,846	1,806	1,860
MAX	2,460	2,560	2,140	2,010	1,870	2,630	5,360	8,660	2,610	2,650	2,050	2,130
MIN	1,830	1,950	1,900	1,820	1,710	1,910	1,940	2,300	1,650	1,660	1,640	1,670
MEAN†	2,311	1,492	1,199	593	686	969	5,779	11,440	1,336	327	874	662
CFSM†	1.70	1.09	.88	.44	.50	.71	4.24	8.39	.98	.24	.64	.49
IN.†	1.96	1.22	1.01	.50	.52	.82	4.73	9.67	1.09	.28	.74	.54

CAL YR 1970 TOTAL 1,061,580 MEAN 2,908 MAX 12,400 MIN 1,780 MEAN† 2,538 CFSM† 1.86 IN† 25.26
WTR YR 1971 TOTAL 856,840 MEAN 2,348 MAX 8,660 MIN 1,640 MEAN† 2,319 CFSM† 1.70 IN† 23.08

† Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes.

01064300 Ellis River near Jackson, N.H.

LOCATION.--Lat 44°13'12", long 71°15'00", Carroll County, in White Mountain National Forest, on right bank 0.4 mile upstream from small left-bank tributary, 1.3 miles upstream from bridge on State Highway 16, and 6 miles northwest of Jackson.

DRAINAGE AREA.--10.9 sq mi.

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,500 ft (from topographic map). Prior to Oct. 14, 1969, at site 0.3 mile downstream at different datum.

AVERAGE DISCHARGE.--7 years, 31.8 cfs (39.62 inches per year).

EXTREMES.--Current year: Maximum discharge, 662 cfs Nov. 21 (gage height, 3.78 ft), from rating curve extended above 310 cfs on basis of slope-area measurement at gage-height 8.99 ft; minimum daily, 5.1 cfs Feb. 7, 8, 12.

Period of record: Maximum discharge, 4,500 cfs Nov. 3, 1966 (gage height, 10.34 ft from recorder, affected by drawdown; 18.9 ft from floodmarks, site and datum then in use), from rating curve extended above 390 cfs on basis of slope-area measurement at gage height 10.34 ft; minimum, 3.7 cfs Mar. 27, 1965.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	19	20	7.0	5.7	6.4	7.3	51	59	21	17	16
2	13	18	21	6.8	5.6	6.3	8.7	49	53	20	14	14
3	85	17	20	6.6	5.5	6.2	41	184	66	15	28	13
4	57	16	19	6.4	5.4	6.1	31	215	67	14	35	12
5	29	16	19	6.4	5.3	6.0	21	88	53	13	18	12
6	22	15	22	6.7	5.2	6.0	19	82	42	13	14	20
7	19	15	18	7.2	5.1	6.0	17	91	50	13	14	14
8	17	15	15	7.0	5.1	6.0	15	89	106	12	12	13
9	15	14	14	7.0	5.2	5.9	13	94	83	12	11	11
10	15	14	13	6.9	5.3	5.6	13	116	52	11	10	9.8
11	14	20	12	5.9	5.3	5.6	25	174	42	10	12	10
12	14	[illegible]	11	5.9	5.1	5.8	44	157	39	9.8	10	22
13	14	17	11	5.8	5.8	5.9	58	255	38	9.4	9.8	43
14	14	16	10	6.6	20	6.2	76	111	34	16	9.4	56
15	14	15	9.5	6.4	17	7.0	47	79	31	12	9.1	41
16	23	15	9.2	6.2	14	25	31	88	30	11	8.7	26
17	16	14	8.9	6.1	11	16	24	116	28	12	7.8	21
18	14	13	8.8	6.0	9.5	11	24	174	27	12	7.5	18
19	14	14	8.7	5.8	8.5	8.4	49	190	27	14	7.3	16
20	13	27	8.6	5.7	7.9	8.4	73	210	26	23	7.0	14
21	12	250	8.4	5.6	7.4	7.9	74	124	27	13	7.3	27
22	13	56	8.0	5.6	7.1	7.8	62	144	27	11	7.0	19
23	88	66	8.1	5.7	6.9	7.5	42	83	23	10	8.4	15
24	131	41	8.4	5.8	6.7	7.3	40	62	22	16	8.7	14
25	50	29	8.5	6.0	6.6	7.3	44	72	21	27	7.5	14
26	38	28	9.2	6.1	6.3	6.8	43	213	25	15	7.0	12
27	33	23	7.8	6.1	6.5	6.8	49	83	19	14	7.5	12
28	28	24	7.4	6.1	6.4	7.0	51	67	17	13	92	12
29	25	24	7.2	6.1	------	7.0	49	65	17	13	44	12
30	22	23	7.0	5.9	------	7.3	42	67	17	17	24	11
31	21	------	7.0	5.8	------	7.3	------	72	------	19	19	------
TOTAL	897	896	364.7	196.2	211.3	239.7	1,133.0	3,705	1,168	441.2	494.0	549.8
MEAN	28.9	29.9	11.8	6.33	7.55	7.73	37.8	120	38.9	14.2	15.9	18.3
MAX	131	250	22	7.2	20	25	76	255	106	27	92	56
MIN	12	13	7.0	5.6	5.1	5.6	7.3	49	17	9.4	7.0	9.8
CFSM	2.65	2.74	1.08	.58	.69	.71	3.47	11.0	3.57	1.30	1.46	1.68
IN.	3.06	3.06	1.24	.67	.72	.82	3.87	12.64	3.99	1.51	1.69	1.88

CAL YR 1970 TOTAL 10,022.4 MEAN 27.5 MAX 375 MIN 5.0 CFSM 2.52 IN 34.20
WTR YR 1971 TOTAL 10,295.9 MEAN 28.2 MAX 255 MIN 5.1 CFSM 2.59 IN 35.14

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	0415	3.78	662				
5-3	2245	3.44	526				
5-26	0215	3.47	538				
8-28	1515	3.25	450				

01064400 Lucy Brook near North Conway, N.H.

LOCATION.--Lat 44°04'10", long 71°10'30", Caroll County, on left bank 1.6 miles upstream from mouth and 2.5 miles northwest of North Conway.

DRAINAGE AREA.--4.68 sq mi.

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 710 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 9.28 cfs (26.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 545 cfs May 3 (gage height, 7.47 ft); minimum, 0.69 cfs Aug. 26.
Period of record: Maximum discharge, 992 cfs Nov. 3, 1966, Apr. 25, 1968 (gage height, 9.20 ft, from floodmarks), from rating curve extended above 50 cfs on basis of slope-area measurement of peak flow; maximum recorded gage height, 8.14 ft Nov. 3, 1966 (affected by drawdown); minimum discharge, 0.32 cfs Sept. 2, 3, 29, 30, 1968.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	9.0	10	4.1	2.8	5.2	6.3	44	4.8	3.4	4.3	3.1
2	2.2	8.3	9.3	3.7	2.9	5.2	6.8	42	4.5	2.9	3.8	2.8
3	19	7.8	9.0	3.7	2.8	4.7	17	199	4.3	2.5	4.1	2.5
4	27	7.1	9.2	3.7	2.8	5.6	19	174	4.0	2.3	6.4	2.1
5	10	7.1	8.3	3.5	2.6	5.6	17	70	3.9	2.1	4.5	1.8
6	7.2	6.5	7.9	3.7	2.7	4.9	16	54	3.7	1.9	3.6	15
7	6.7	6.6	7.6	3.5	2.7	4.5	16	49	3.6	1.8	3.1	8.2
8	5.7	6.0	7.4	3.8	2.7	4.5	14	40	4.5	1.6	2.7	5.9
9	5.1	5.4	7.0	3.6	2.7	4.5	13	45	4.0	1.5	2.5	4.6
10	4.6	5.4	6.6	3.5	2.7	4.5	13	37	3.5	1.4	2.1	3.9
11	4.3	8.0	6.4	3.5	2.7	4.5	20	30	3.2	1.3	2.7	3.6
12	4.1	7.9	6.1	3.4	2.7	4.3	32	25	2.8	1.2	2.5	11
13	3.7	6.9	5.6	3.3	3.0	4.3	44	27	2.6	1.2	1.9	41
14	3.7	6.4	5.5	3.2	30	4.4	53	24	2.4	2.2	1.8	59
15	4.5	6.4	5.2	3.2	10	5.4	39	20	2.2	1.4	1.8	30
16	14	7.1	4.9	3.2	6.4	11	29	17	2.0	1.2	1.7	16
17	6.7	6.7	4.8	3.2	6.0	12	25	15	1.9	1.6	1.4	12
18	7.0	6.2	4.8	3.1	5.4	8.5	26	14	1.8	1.8	1.3	9.6
19	6.3	7.2	4.7	3.1	5.2	8.0	41	13	1.7	2.3	1.2	8.0
20	5.5	13	4.6	3.0	5.2	8.5	60	12	1.6	3.2	1.2	7.2
21	5.5	86	4.5	3.0	4.9	7.6	62	11	1.5	1.5	1.2	7.2
22	5.4	32	4.3	3.0	4.8	7.0	57	12	1.7	1.2	1.1	6.5
23	44	27	4.4	2.9	4.8	7.0	45	10	1.5	1.0	1.2	5.8
24	82	21	4.5	2.8	4.8	6.8	42	9.0	1.4	.89	1.1	5.4
25	28	16	4.5	2.8	4.7	6.7	43	8.5	1.3	.89	.89	4.9
26	22	13	4.5	2.8	4.3	6.0	42	8.0	8.0	.89	.65	4.7
27	20	12	4.2	2.8	5.1	6.4	42	7.4	6.0	1.3	1.3	4.5
28	15	12	4.0	2.9	5.7	6.3	43	7.1	5.0	1.0	12	4.3
29	13	11	3.9	2.9	------	6.3	47	6.3	4.2	3.1	8.8	4.1
30	11	11	4.0	2.8	------	6.3	42	5.7	3.7	4.7	4.7	3.6
31	10	------	4.1	2.7	------	6.3	------	5.0	------	5.4	3.6	------
TOTAL	407.4	386.4	181.8	100.8	143.3	192.7	972.1	1,041.0	97.3	60.67	91.18	298.3
MEAN	13.1	12.9	5.86	3.25	5.12	6.22	32.4	33.6	3.24	1.96	2.94	9.94
MAX	82	86	10	4.1	30	12	62	199	8.0	5.4	12	59
MIN	2.2	5.4	3.9	2.7	2.7	4.3	6.3	5.0	1.3	.89	.65	1.8
CFSM	2.80	2.76	1.25	.69	1.09	1.33	6.92	7.18	.69	.42	.63	2.12
IN.	3.24	3.07	1.45	.80	1.14	1.53	7.73	8.27	.77	.48	.72	2.37

CAL YR 1970 TOTAL 3,642.29 MEAN 9.98 MAX 97 MIN .59 CFSM 2.13 IN 28.95
WTR YR 1971 TOTAL 3,972.95 MEAN 10.9 MAX 199 MIN .69 CFSM 2.33 IN 31.58

PEAK DISCHARGE (BASE, 190 CFS)

NOTE.--No gage-height record June 4 to July 13.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	0100	6.53	191				
5-3	2245	7.47	545				

01064500 Saco River near Conway, N. H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, on left bank at Odell Falls, 1.8 miles downstream from Swift River and Conway.

DRAINAGE AREA.--386 sq mi.

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mile downstream at different datum.

AVERAGE DISCHARGE.--48 years (1903-9, 1929-71), 907 cfs (31.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,800 cfs May 4 (gage height, 9.89 ft); minimum, 136 cfs Aug. 27 (gage height, 2.09 ft).
Period of record: Maximum discharge, 43,900 cfs Mar. 27, 1953 (gage height, 17.20 ft), from rating curve extended above 23,000 cfs on basis of slope-area measurement of peak flow; minimum, 40 cfs Mar. 16, 1932 (gage height, 1.61 ft).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	579	750	305	230	570	310	2,950	1,100	274	460	285
2	305	538	710	300	225	515	325	3,080	921	369	345	245
3	537	507	665	300	220	480	650	5,320	887	324	320	223
4	2,000	481	630	295	220	455	1,200	12,200	903	272	722	208
5	901	467	595	290	215	440	1,000	6,720	828	248	489	197
6	602	457	565	340	215	430	840	5,060	703	236	351	279
7	499	431	540	330	215	425	740	4,720	638	234	291	307
8	450	414	515	315	215	415	660	4,620	776	211	258	255
9	390	396	495	300	220	405	605	4,730	1,460	203	235	224
10	346	384	475	295	240	400	610	4,270	834	195	216	202
11	321	432	460	285	235	395	850	4,990	647	188	210	189
12	306	589	440	280	225	390	1,940	5,410	565	180	237	258
13	294	527	425	270	250	380	2,620	5,770	514	173	211	1,450
14	290	467	410	265	500	400	3,180	4,410	476	199	192	1,610
15	307	446	395	260	1,500	450	2,730	3,160	443	229	183	1,660
16	610	461	385	255	1,250	520	2,070	2,920	419	206	181	940
17	595	461	375	250	950	1,000	1,700	2,800	395	193	176	696
18	459	428	365	250	760	630	1,700	3,190	372	224	166	587
19	400	434	360	245	650	520	2,240	3,360	349	224	160	503
20	367	502	350	245	550	470	3,670	3,370	331	382	155	444
21	351	3,760	345	240	485	435	4,480	2,990	321	316	150	465
22	340	2,390	340	240	430	400	4,000	2,730	348	240	149	524
23	682	1,980	335	235	400	375	3,330	2,300	330	210	155	418
24	3,830	1,740	350	230	380	355	2,800	1,670	305	194	171	373
25	1,840	1,250	425	230	375	340	3,130	1,420	330	247	153	339
26	1,280	1,000	390	230	375	330	2,990	2,310	646	262	143	314
27	1,110	919	360	255	410	325	2,860	1,810	464	234	145	297
28	906	843	340	340	600	320	3,020	1,410	359	214	429	286
29	783	823	330	295	------	310	3,170	1,270	309	205	1,280	280
30	692	784	320	265	------	305	2,840	1,220	285	426	503	272
31	628	------	310	245	------	305	------	1,170	------	370	349	------
TOTAL	22,771	24,890	13,750	8,480	12,540	13,490	62,260	113,350	17,258	7,682	9,185	14,330
MEAN	735	830	444	274	448	435	2,075	3,656	575	248	296	478
MAX	3,830	3,760	750	340	1,500	1,000	4,480	12,200	1,460	426	1,280	1,660
MIN	290	384	310	230	215	305	310	1,170	285	173	143	189
CFSM	1.90	2.15	1.15	.71	1.16	1.13	5.38	9.47	1.49	.64	.77	1.24
IN.	2.19	2.40	1.33	.82	1.21	1.30	6.00	10.92	1.66	.74	.89	1.38

CAL YR 1970 TOTAL 332,666 MEAN 911 MAX 7,910 MIN 122 CFSM 2.36 IN 32.06
WTR YR 1971 TOTAL 319,986 MEAN 877 MAX 12,200 MIN 143 CFSM 2.27 IN 30.84

PEAK DISCHARGE (BASE, 8,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	0800	9.89	14,800				

01064800 Cold Brook at South Tamworth, N.H.

LOCATION.--Lat 43°48'57", long 71°17'51", Carroll County, on right bank 100 ft upstream from highway bridge on Johnson Mountain Road, 0.8 mile south of South Tamworth, and 0.9 mile upstream from mouth.

DRAINAGE AREA.--5.41 sq mi.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 840 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 11.7 cfs (29.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 412 cfs May 3 (gage height, 7.84 ft), from rating curve extended above 110 cfs on basis of slope-area measurement at gage height 7.61 ft; minimum, 0.33 cfs part or all of each day July 11-18, Aug. 17-19.

Period of record: Maximum discharge, 612 cfs Nov. 7, 1963 (gage height, 10.21 ft), from rating curve extended above 80 cfs; minimum, 0.07 cfs Aug. 16-19, 23, 1965.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10	11	3.7	2.7	8.6	7.4	69	4.8	.95	2.8	1.2
2	11	9.3	10	3.7	2.7	7.4	8.2	66	3.9	.86	1.7	1.1
3	50	8.8	10	3.7	2.7	7.0	30	244	5.1	.77	1.9	.86
4	100	7.6	12	3.0	2.7	6.8	27	183	4.5	.77	2.8	.77
5	25	8.4	10	3.3	2.6	6.5	26	94	3.9	.62	1.9	.77
6	17	8.4	9.0	4.0	2.6	6.2	21	83	3.7	.55	1.3	.77
7	14	7.0	8.5	3.6	2.6	6.0	19	77	3.4	.55	.95	.77
8	11	7.0	8.0	3.5	2.6	5.8	16	66	3.0	.49	.86	.77
9	9.3	6.0	8.0	3.4	2.6	5.5	15	77	2.6	.43	.69	.69
10	7.6	6.4	9.0	3.3	2.6	5.5	17	63	2.0	.43	.69	.55
11	7.6	15	6.5	3.3	2.6	5.4	38	55	2.0	.43	.77	.55
12	6.7	20	5.8	3.2	2.6	5.4	52	46	2.0	.33	.77	3.0
13	6.7	14	5.3	3.1	3.0	5.3	78	44	1.9	.33	.69	4.5
14	6.4	11	4.9	3.0	15	5.3	87	40	1.7	.77	.55	10
15	7.6	11	4.7	3.0	10	6.0	55	27	1.7	.55	.55	10
16	58	12	4.5	3.0	7.0	22	39	21	1.6	.33	.55	6.0
17	28	12	4.3	2.9	6.0	18	29	17	1.4	.33	.49	5.1
18	19	11	4.5	2.9	5.6	13	28	15	1.4	.49	.43	4.5
19	14	9.7	4.3	2.9	5.4	11	54	13	1.3	1.3	.38	3.4
20	12	14	4.2	2.8	5.0	10	96	12	1.1	1.9	.55	3.0
21	11	65	4.2	2.8	5.0	9.0	94	10	1.1	.69	.49	3.0
22	9.3	33	3.9	2.8	5.0	8.4	80	12	1.1	.49	.49	2.8
23	74	30	4.2	2.7	5.0	7.9	56	11	1.1	.49	.38	2.4
24	116	23	4.2	2.7	5.0	7.4	55	8.4	.95	.49	.38	2.0
25	39	17	4.2	2.7	5.0	7.0	63	8.4	3.4	.38	.38	1.7
26	31	14	3.9	2.7	4.8	6.9	61	7.9	4.2	.38	.38	1.7
27	26	12	3.7	2.9	5.5	6.8	53	7.3	1.9	.62	.69	1.6
28	19	12	3.7	2.8	9.0	6.8	55	6.7	1.6	.49	5.4	1.6
29	16	11	3.7	2.7	------	7.0	72	6.0	1.3	1.7	3.4	1.6
30	14	11	3.7	2.6	------	7.2	61	5.4	1.1	3.9	1.9	1.6
31	12	------	3.7	2.6	------	7.4	------	5.4	------	2.6	1.4	------
TOTAL	789.2	436.6	187.6	95.3	132.9	248.5	1,392.6	1,400.5	70.75	25.41	36.61	78.30
MEAN	25.5	14.6	6.05	3.07	4.75	8.02	46.4	45.2	2.36	.82	1.18	2.61
MAX	116	65	12	4.0	15	22	96	244	5.1	3.9	5.4	10
MIN	6.4	6.0	3.7	2.6	2.6	5.3	7.4	5.4	.95	.33	.38	.55
CFSM	4.71	2.70	1.12	.57	.88	1.48	8.58	8.35	.44	.15	.22	.48
IN.	5.43	3.00	1.29	.66	.91	1.71	9.58	9.63	.49	.17	.25	.54

CAL YR 1970 TOTAL 4,485.32 MEAN 12.3 MAX 140 MIN .41 CFSM 2.27 IN 30.84
WTR YR 1971 TOTAL 4,894.27 MEAN 13.4 MAX 244 MIN .33 CFSM 2.48 IN 33.65

PEAK DISCHARGE (BASE, 220 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-24	0015	7.63	349				
5-3	2130	7.84	412				

01065000 Ossipee River at Effingham Falls, N.H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, on left bank 0.3 mile upstream from bridge on State Highway 153 at Effingham Falls, 0.35 mile downstream from outlet of Ossipee Lake, and 4 miles northwest of Effingham.

DRAINAGE AREA.--330 sq mi.

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (from topographic map).

AVERAGE DISCHARGE.--29 years, 679 cfs (27.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,490 cfs May 5 (gage height, 7.78 ft); minimum, 72 cfs Aug. 9; minimum daily, 120 cfs July 18, 19.
Period of record: Maximum discharge, 11,700 cfs Mar. 28, 1953 (gage height, 11.64 ft); minimum, about 5 cfs during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 cfs Oct. 10, 1944.

REMARKS.--Records excellent except those for periods of doubtful gage-height record, which are good. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity, 1,430,000,000 cu ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	1,140	694	379	317	445	524	2,350	449	171	167	261
2	344	1,130	701	378	312	454	536	2,270	188	171	167	258
3	346	1,050	704	378	304	463	573	2,300	210	170	169	256
4	354	939	568	473	297	484	648	2,870	268	200	181	254
5	361	916	467	526	296	500	730	3,430	361	193	196	253
6	364	898	472	514	303	483	811	3,430	357	122	266	251
7	367	786	624	504	298	481	906	3,210	355	126	309	250
8	418	717	723	489	300	488	971	2,930	353	124	301	249
9	468	705	715	471	312	478	986	2,690	353	124	203	247
10	464	513	707	455	310	463	991	2,490	351	124	245	246
11	461	437	706	441	304	457	1,030	2,310	347	123	284	244
12	457	507	697	429	301	454	1,180	2,140	344	123	279	245
13	454	549	696	411	305	442	1,430	2,000	342	123	279	247
14	451	669	700	399	329	432	1,780	1,580	340	125	279	253
15	451	665	689	390	344	426	2,080	1,310	339	128	279	261
16	464	661	681	378	369	435	2,170	1,300	337	126	277	268
17	471	657	676	366	384	460	2,080	1,290	333	123	274	272
18	475	653	662	354	400	497	1,990	1,200	328	120	272	272
19	482	649	657	342	423	522	1,960	1,140	314	120	272	267
20	531	648	649	331	438	555	2.150	1,130	309	121	270	267
21	831	661	644	321	443	569	2,510	650	309	123	272	267
22	930	683	625	319	439	574	2,790	361	307	140	267	267
23	1,040	698	613	311	437	569	2,880	429	306	177	282	267
24	1,380	705	603	308	436	563	2,800	790	304	265	279	266
25	1,470	713	592	302	428	560	2,700	976	236	263	270	263
26	1,420	717	578	303	419	552	2,630	943	169	263	272	262
27	1,340	706	567	319	419	538	2,570	906	169	263	298	261
28	1,260	701	481	338	431	524	2,480	875	169	263	289	260
29	1,190	698	381	319	------	513	2,420	845	170	261	263	258
30	1,150	697	381	323	------	514	2,400	822	171	228	266	257
31	1,150	------	380	323	------	517	------	808	------	163	263	------
TOTAL	21,688	21,868	19,033	11,894	10,098	15,412	51,706	51,775	8,888	5,166	8,010	7,749
MEAN	700	729	614	384	361	497	1,724	1,670	296	167	258	258
MAX	1,470	1,140	723	526	443	574	2,880	3,430	449	265	309	272
MIN	344	437	380	302	296	426	524	361	169	120	167	244

CAL YR 1970	TOTAL 266,278	MEAN 730	MAX 3,360	MIN 157	CFSM 2.21	IN 30.02
WTR YR 1971	TOTAL 233,287	MEAN 639	MAX 3,430	MIN 120	CFSM 1.94	IN 26.30

NOTE.--Doubtful gage-height record Oct. 7 to Nov. 20, July 14 to Aug. 25.

01072100 Salmon Falls River at Milton, N.H.

LOCATION.--Lat 43°24'50", long 70"59'15", Strafford County, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 1,070 cfs Oct. 25 (gage height, 4.90 ft, from graph based on gage readings); minimum daily, 33 cfs July 9-11, 17, 18.

Period of record: Maximum discharge, 1,730 cfs Feb. 12, 1970 (gage height, 5.49 ft); minimum daily, 19 cfs Aug. 30, Sept. 13, 1970.

REMARKS.--Records good except those for period of shifting control, which are fair. Flow completely regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 cu ft. See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	334	227	130	121	219	257	537	161	42	51	50
2	121	348	238	125	117	238	257	481	161	42	51	51
3	115	370	227	121	115	238	293	420	147	42	51	72
4	117	339	230	121	107	245	313	410	115	41	51	60
5	117	317	281	121	107	269	400	503	76	42	51	51
6	130	313	297	121	107	269	450	476	84	43	51	49
7	135	309	293	121	105	249	481	410	86	42	51	105
8	130	305	265	121	105	234	487	395	88	40	51	164
9	125	297	241	115	107	215	465	385	89	33	51	164
10	119	293	230	113	107	208	435	301	80	33	51	164
11	117	289	208	113	107	241	470	212	72	33	51	161
12	109	281	201	113	107	261	573	188	67	42	51	161
13	107	277	188	109	111	241	685	137	63	47	50	150
14	107	273	185	107	140	223	800	140	58	38	50	150
15	113	273	182	107	161	223	848	147	54	34	50	150
16	153	273	167	107	192	223	840	169	50	35	50	147
17	208	305	169	105	208	227	752	227	49	33	50	147
18	234	293	172	103	223	285	678	241	47	33	50	147
19	234	253	164	103	227	301	631	230	46	40	50	145
20	223	227	158	95	227	301	678	234	45	46	50	145
21	208	227	155	93	227	289	752	230	47	43	51	142
22	192	238	140	93	212	281	792	238	51	43	51	135
23	253	249	140	93	212	289	784	265	46	42	51	135
24	800	253	140	93	198	289	720	227	42	40	50	153
25	1,030	249	140	88	195	285	685	158	42	40	50	167
26	816	234	140	88	182	285	657	172	43	40	50	164
27	585	223	140	93	178	281	644	167	43	46	50	153
28	487	212	140	100	185	277	637	164	43	51	51	147
29	435	205	140	105	------	265	605	155	42	51	51	145
30	380	201	130	117	------	261	579	150	43	51	51	135
31	357	------	130	119	------	257	------	153	------	51	51	------
TOTAL	8,390	8,260	5,858	3,353	4,390	7,969	17,648	8,322	2,080	1,279	1,569	3,909
MEAN	271	275	189	108	157	257	588	268	69.3	41.3	50.6	130
MAX	1,030	370	297	130	227	301	848	537	161	51	51	167
MIN	107	201	130	88	185	208	257	137	42	33	50	49
(†)	789.2	572.9	580.2	590.6	658.4	567.5	1,002.6	1,224.2	1,170.3	1,113.0	1,020.1	752.0

CAL YR 1970 TOTAL 76,251 MEAN 209 MAX 1,030 MIN 19
WTR YR 1971 TOTAL 73,027 MEAN 200 MAX 1,030 MIN 33

† Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes, and Horn, Wilson, Milton, Northeast, and Town House Ponds.
NOTE.--Shifting-control method used Feb. 28 to Apr. 4.

01072850 Mohawk Brook near Center Strafford, N.H.

LOCATION.--Lat 43°15'47", long 71°05'50", Strafford County, on left bank 0.5 mile downstream from bridge on State Highway 202A and 1.2 miles east of Center Strafford.

DRAINAGE AREA.--8.87 sq mi.

PERIOD OF RECORD.--May 1964 to current year.

AVERAGE DISCHARGE.--7 years, 11.3 cfs (17.30 inches per year).

GAGE.--Water-stage recorder. Altitude of gage is 285 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 109 cfs Apr. 3 (gage height, 2.87 ft); maximum gage height, 4.17 ft Mar. 20 (backwater from ice); no flow July 24-26.

Period of record: Maximum discharge, 555 cfs Dec. 27, 1969 (gage height, 4.21 ft); maximum gage height, 6.02 ft Feb. 11, 1970 (backwater from ice); no flow at times most years.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	2.6	7.5	6.7	6.5	25	29	24	5.3	.18	3.8	4.5
2	.17	2.1	6.8	6.6	6.1	20	40	19	4.5	.18	2.3	2.6
3	.14	1.8	6.0	6.6	5.8	17	95	35	3.8	.18	1.5	2.2
4	.37	1.7	26	6.2	5.6	15	87	77	4.3	.14	1.0	1.3
5	.43	2.6	28	7.4	5.4	17	73	40	3.8	.12	.83	.55
6	.37	3.5	18	9.0	5.5	13	60	28	3.0	.12	.51	.34
7	.22	3.2	14	8.2	5.8	15	58	22	2.6	.10	.40	.34
8	.17	2.6	11	7.4	6.2	13	44	18	2.2	.08	.34	.22
9	.11	2.2	9.0	7.0	7.0	12	35	23	2.1	.03	.26	.14
10	.10	1.9	10	8.0	6.8	11	46	26	1.7	.04	.22	.10
11	.09	3.9	9.0	6.4	6.0	11	82	20	1.5	.04	.20	.06
12	.09	8.3	8.0	5.6	7.0	11	74	16	1.2	.02	.32	.40
13	.09	6.0	7.4	5.4	8.5	10	82	19	1.0	.01	.22	.64
14	.35	4.6	7.0	5.0	30	10	87	31	.90	.01	.14	1.7
15	.43	5.0	6.8	4.6	35	13	64	20	.83	.01	.12	2.0
16	.94	7.5	6.7	4.3	20	55	45	16	.83	.01	.16	1.2
17	.92	6.8	6.0	4.1	17	50	35	19	.70	.01	.12	.90
18	.76	5.3	6.2	3.8	15	35	35	17	.64	.01	.10	.76
19	.70	4.6	7.0	3.6	13	30	46	14	.64	.06	.07	.51
20	.67	4.6	8.5	3.3	12	28	61	12	.55	.14	.06	.30
21	.64	7.8	8.2	3.1	11	30	57	11	.43	.10	.06	.28
22	.60	7.8	8.0	3.0	11	27	49	12	.51	.04	.06	.28
23	7.5	8.3	7.6	3.0	10	25	40	13	.51	.01	.05	.28
24	38	8.8	7.2	3.5	10	23	32	10	.51	0	.03	.24
25	13	7.3	7.0	4.5	9.8	21	33	9.0	.51	0	.01	.22
26	7.0	6.3	7.0	6.0	10	19	37	8.3	1.0	0	.01	.20
27	4.8	5.5	7.0	10	12	18	36	7.5	1.0	.01	.02	.18
28	3.9	5.5	7.0	12	18	17	29	7.0	.55	.07	.10	.12
29	3.4	6.3	6.9	9.0	------	16	29	6.3	.32	.24	3.2	.10
30	2.9	7.0	6.8	7.5	------	20	30	4.8	.18	12	14	.10
31	2.7	------	6.8	6.8	------	25	------	5.0	------	5.8	6.3	------
TOTAL	91.69	151.4	288.4	187.6	316.0	652	1,550	589.9	47.61	19.76	36.51	22.76
MEAN	2.96	5.05	9.30	6.05	11.3	21.0	51.7	19.0	1.59	.64	1.18	.76
MAX	38	8.8	28	12	35	55	95	77	5.3	12	14	4.5
MIN	.09	1.7	6.0	3.0	5.4	10	29	4.8	.18	0	.01	.06
CFSM	.33	.57	1.05	.68	1.27	2.37	5.83	2.14	.18	.07	.13	.09
IN.	.38	.63	1.21	.79	1.33	2.73	6.50	2.47	.20	.08	.15	.10

CAL YR 1970 TOTAL 4,154.32 MEAN 11.4 MAX 250 MIN 0 CFSM 1.29 IN 17.42
WTR YR 1971 TOTAL 3,953.63 MEAN 10.8 MAX 95 MIN 0 CFSM 1.22 IN 16.58

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-3	1900	2.87	109				
4-13	2230	2.93	102				

01073000 Oyster River near Durham, N.H.

LOCATION.--Lat 43°08'55", long 70°57'56", Strafford County, on left bank 200 ft upstream from highway bridge, 2.5 miles west of Durham, and 7 miles upstream from mouth.

DRAINAGE AREA.--12.1 sq mi.

PERIOD OF RECORD.--October 1934 to current year. October and November 1934 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 70 ft (from topographic map). Prior to Oct. 1, 1964, at datum 1.00 ft higher.

AVERAGE DISCHARGE.--37 years, 19.0 cfs (21.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 140 cfs Apr. 3 (gage height, 2.98 ft); minimum, 0.23 cfs Aug. 18, 19, 25, 26, 27.
Period of record: Maximum discharge, 862 cfs Sept. 11, 1954 (gage height, 6.47 ft, present datum); maximum gage height, 8.45 ft, present datum, Mar. 19, 1936; minimum discharge, 0.23 cfs Aug. 18, 19, 25, 26, 27, 1971.

REMARKS.--Records good except those for winter period and those below 1.0 cfs, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	4.8	15	10	10	35	68	41	11	2.0	4.5	.50
2	1.3	4.6	13	10	10	35	85	34	9.0	2.4	2.3	.50
3	1.1	4.5	12	9.1	10	30	130	55	9.5	2.0	1.7	.40
4	2.4	4.3	43	8.7	9.8	26	121	84	9.0	2.0	1.5	.45
5	1.7	12	40	12	9.5	30	111	64	7.6	1.9	1.4	.35
6	1.3	13	28	14	9.5	29	96	47	6.5	1.9	1.2	.50
7	1.2	8.7	20	12	10	26	88	37	5.8	1.6	1.1	.84
8	1.2	7.3	15	11	11	25	83	31	5.5	1.5	.84	.76
9	1.1	6.4	13	10	13	24	73	37	6.4	1.3	.76	.76
10	1.0	5.9	14	12	12	23	78	48	5.1	1.3	.76	.69
11	1.0	17	13	11	11	22	103	38	4.4	1.1	1.2	.84
12	1.1	19	12	10	13	21	103	30	3.9	1.2	1.3	1.2
13	1.2	13	11	9.0	14	21	101	46	3.6	1.1	.84	1.4
14	1.2	12	11	8.4	40	23	101	65	3.3	1.4	.84	3.7
15	1.1	17	11	7.8	35	25	88	45	3.0	1.4	.56	2.1
16	4.3	20	10	7.0	30	45	72	37	2.9	1.2	.84	1.3
17	3.1	15	9.3	6.4	28	70	63	47	2.6	1.2	1.1	3.5
18	1.9	12	9.6	5.2	26	65	60	37	2.4	2.1	.45	2.6
19	1.5	11	10	4.5	24	55	68	30	2.3	1.7	.40	2.3
20	1.3	11	13	4.0	22	50	65	26	2.1	3.3	.65	1.5
21	1.3	22	13	3.5	20	54	61	23	2.3	1.6	.56	1.4
22	1.3	17	12	3.0	19	52	55	24	4.1	1.3	.40	1.1
23	28	25	12	3.5	19	50	47	23	2.5	1.1	.40	.92
24	65	22	11	4.0	18	46	40	19	2.3	1.1	.45	.84
25	19	16	11	5.5	18	42	44	17	2.3	1.0	.40	.84
26	13	13	11	7.0	18	41	47	15	4.1	.97	.35	.84
27	10	12	11	9.0	18	40	54	14	2.3	1.1	.45	.84
28	8.1	12	11	10	25	40	44	12	2.1	1.5	1.4	.92
29	6.9	15	11	11	------	50	53	11	1.9	1.2	1.0	1.0
30	5.9	16	10	11	------	62	51	11	2.0	12	.56	1.4
31	5.3	------	10	11	------	64	------	11	------	5.8	.45	------
TOTAL	195.2	388.5	445.9	260.6	502.8	1,220	2,253	1,059	131.8	62.27	30.70	35.99
MEAN	6.30	13.0	14.4	8.41	18.0	39.4	75.1	34.2	4.39	2.01	.99	1.20
MAX	65	25	43	14	40	70	130	84	11	12	4.5	3.7
MIN	1.0	4.3	9.3	3.0	9.5	21	40	11	1.9	.97	.35	.35
CFSM	.52	1.07	1.19	.70	1.49	3.26	6.21	2.83	.36	.17	.08	.10
IN.	.60	1.19	1.37	.80	1.55	3.75	6.93	3.26	.41	.19	.09	.11

CAL YR 1970 TOTAL 6,718.80 MEAN 18.4 MAX 230 MIN .73 CFSM 1.52 IN 20.66
WTR YR 1971 TOTAL 6,585.76 MEAN 18.0 MAX 130 MIN .35 CFSM 1.49 IN 20.25

PEAK DISCHARGE (BASE, 170 CFS).--No peak above base.

01073500 Lamprey River near Newmarket, N. H.

LOCATION.--Lat 43°06'09", long 70°57'11", Rockingham County, on right bank 200 ft upstream from Packers Falls, 2 miles northwest of Newmarket, and 4.6 miles upstream from mouth.

DRAINAGE AREA.--183 sq mi.

PERIOD OF RECORD.--July 1934 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (from topographic map).

AVERAGE DISCHARGE.--37 years, 273 cfs (20.26 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,510 cfs Apr. 5 (gage height, 6.16 ft); minimum daily, 7.8 cfs Sept. 11.
Period of record: Maximum discharge, 5,490 cfs Mar. 20, 1936 (gage height, 14.88 ft), from rating curve extended above 3,100 cfs on basis of computation of flow over dam at gage height 14.69 ft; minimum daily, 1 cfs Oct. 21, 1935.

REMARKS.--Records excellent except those for winter period, which are good. Some regulation by Pawtuckaway and Mendums Ponds (combined capacity, about 600,000,000 cu ft).

REVISIONS (WATER YEARS).--WSP 1231: 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	135	191	153	190	437	727	606	171	49	101	13
2	16	125	184	148	145	482	821	561	154	51	85	12
3	15	123	174	147	135	499	1,130	570	147	42	70	10
4	17	122	294	146	135	476	1,360	772	142	34	58	9.3
5	20	140	339	161	140	462	1,500	873	127	30	48	9.3
6	17	156	357	196	146	436	1,390	833	110	27	39	9.3
7	16	137	300	205	146	412	1,210	675	100	25	34	9.6
8	15	126	260	205	145	398	1,120	559	109	23	30	9.1
9	15	115	220	190	165	373	993	503	191	20	28	8.8
10	15	106	231	180	210	351	908	540	166	19	22	8.3
11	14	124	205	170	230	333	991	513	154	19	21	7.8
12	14	167	205	200	228	314	1,150	475	122	16	24	9.6
13	15	160	188	210	239	300	1,340	475	100	16	25	13
14	17	160	186	205	337	303	1,400	642	47	16	23	32
15	48	165	183	205	362	336	1,390	622	56	16	21	43
16	129	195	165	210	380	497	1,280	579	63	16	19	38
17	127	188	158	195	404	658	1,090	578	58	15	18	62
18	139	185	157	190	425	729	920	529	52	23	16	53
19	118	171	190	175	422	798	858	472	67	25	15	41
20	129	166	198	165	395	770	831	409	43	29	14	33
21	135	203	192	160	364	723	825	359	46	27	13	30
22	139	202	173	155	337	670	815	335	89	23	12	27
23	189	222	165	140	318	639	759	333	76	21	11	25
24	439	239	165	125	304	600	668	316	71	20	9.9	21
25	410	229	172	115	290	549	636	266	63	19	9.3	17
26	370	203	175	115	281	504	632	260	67	17	8.8	15
27	270	183	174	160	298	484	656	233	60	19	9.9	14
28	229	179	170	180	391	482	616	210	51	25	15	14
29	200	185	154	180	-------	538	611	191	50	26	17	13
30	177	191	119	170	-------	623	623	180	48	56	19	13
31	155	-------	164	160	-------	676	-------	214	-------	73	16	-------
TOTAL	3,629	5,002	6,168	5,316	7,522	15,852	29,250	14,683	2,780	837	851.9	620.1
MEAN	117	167	199	171	269	511	975	474	92.7	27.0	27.5	20.7
MAX	439	239	357	210	425	798	1,500	873	191	73	101	62
MIN	14	106	119	115	135	300	611	180	43	15	8.8	7.8
CFSM	.64	.91	1.09	.93	1.47	2.79	5.33	2.59	.51	.15	.15	.11
IN.	.74	1.02	1.25	1.08	1.53	3.22	5.95	2.98	.57	.17	.17	.13

CAL YR 1970 TOTAL 96,570.3 MEAN 265 MAX 2,300 MIN 8.3 CFSM 1.45 IN 19.63
WTR YR 1971 TOTAL 92,511.0 MEAN 253 MAX 1,500 MIN 7.8 CFSM 1.38 IN 18.81

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01073600 Dudley Brook near Exeter, N. H.

LOCATION.--Lat 42°59'37", long 71°01'24", Rockingham County, on right bank 2.4 miles upstream from mouth and 3.5 miles west of Exeter.

DRAINAGE AREA.--4.97 sq mi.

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 6.28 cfs (17.16 inches per year).

EXTREMES.--Current year: Maximum discharge, 77 cfs Apr. 3 (gage height, 5.49 ft); no flow July 17, Aug. 24-27.
Period of record: Maximum discharge, about 300 cfs Mar. 19, 1968 (gage height, about 7.40 ft), from rating curve extended above 210 cfs; no flow at times some years.

REMARKS.--Records good except those for winter period and those below 0.10 cfs, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	1.1	3.7	2.7	2.6	14	42	15	3.7	.27	.29	.02
2	.39	1.0	3.5	2.6	2.5	13	47	12	2.9	.39	.11	.01
3	.41	.98	2.9	2.4	2.5	12	73	13	2.3	.39	.05	.01
4	.66	.93	7.8	2.3	2.5	10	45	32	2.8	.22	.06	.01
5	.66	2.0	25	2.1	2.5	11	34	25	2.2	.06	.05	.01
6	.47	3.6	16	3.5	2.5	11	26	17	1.6	.08	.08	.01
7	.24	3.1	10	3.0	2.6	10	23	12	1.4	.08	.08	.01
8	.14	2.2	6.0	2.5	2.9	9.8	30	10	1.6	.06	.06	.01
9	.09	1.7	5.0	2.2	3.2	9.2	27	12	4.3	.04	.05	.01
10	.06	1.3	4.5	3.0	3.0	9.0	32	15	4.6	.03	.04	.01
11	.06	2.4	4.5	2.7	2.8	8.6	37	13	2.1	.02	.06	.01
12	.06	5.7	4.0	2.5	3.2	8.2	31	10	1.6	.02	.13	.03
13	.08	4.9	3.5	2.2	3.5	8.0	28	12	.98	.01	.11	.06
14	.19	3.7	3.2	2.0	15	9.0	28	19	.84	.01	.08	1.0
15	.30	5.3	3.0	1.9	13	10	25	15	.66	.01	.08	2.1
16	1.3	9.2	2.7	1.7	12	15	19	12	.50	.01	.08	1.5
17	1.4	6.7	2.4	1.5	11	34	17	19	.18	0	.05	1.1
18	1.3	4.0	2.2	1.3	10	28	16	16	.18	.02	.04	1.2
19	.81	2.9	2.5	1.1	9.2	25	19	11	.08	.03	.03	1.1
20	.66	2.8	3.4	1.0	8.8	23	20	8.5	.06	.08	.03	.66
21	.63	5.3	3.4	.85	8.0	25	16	6.8	.15	.10	.03	.54
22	.60	7.3	3.4	.70	7.4	27	14	6.9	3.1	.07	.02	.39
23	3.6	6.5	3.3	.90	7.3	25	12	8.2	4.1	.04	.02	.27
24	22	7.5	3.3	1.1	7.2	24	10	6.8	.75	.03	0	.22
25	11	4.7	3.2	1.3	7.0	22	11	5.5	.57	.02	0	.21
26	6.1	2.9	3.2	1.7	7.0	21	17	4.7	2.3	.02	0	.13
27	3.0	2.2	3.2	2.2	7.4	21	16	4.1	.57	.04	0	.10
28	2.2	2.3	3.2	2.5	10	25	14	3.8	.52	.06	.08	.08
29	1.7	2.8	3.1	2.7	------	36	17	3.4	.41	.06	.04	.08
30	1.4	3.6	3.0	2.8	------	44	21	3.1	.32	.08	.09	.07
31	1.3	------	2.8	2.7	------	41	------	3.1	------	.10	.04	------
TOTAL	63.31	110.61	150.9	63.65	176.6	588.8	767	354.9	47.37	2.45	1.88	10.96
MEAN	2.04	3.69	4.87	2.05	6.31	19.0	25.6	11.4	1.58	.079	.061	.37
MAX	22	9.2	25	3.5	15	44	73	32	4.6	.39	.29	2.1
MIN	.06	.93	2.2	.70	2.5	8.0	10	3.1	.06	0	0	.01
CFSM	.41	.74	.98	.41	1.27	3.82	5.15	2.29	.32	.02	.01	.07
IN.	.47	.83	1.13	.48	1.32	4.41	5.74	2.66	.35	.02	.01	.08

CAL YR 1970 TOTAL 2,098.62 MEAN 5.75 MAX 133 MIN 0 CFSM 1.16 IN 15.71
WTR YR 1971 TOTAL 2,338.43 MEAN 6.41 MAX 73 MIN 0 CFSM 1.29 IN 17.50

PEAK DISCHARGE (BASE 100 CFS).--No peak above base.

NOTE.--No gage-height record Feb. 3-22, Feb. 26 to Mar. 24.

01075000 Pemigewasset River at Woodstock, N.H.

LOCATION.--Lat 43°58'34", long 71°40'48", Grafton County, on right bank 0.2 mile east of Woodstock and 0.7 mile upstream from Eastman Brook.

DRAINAGE AREA.--193 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 499 cfs (35.11 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,080 cfs May 13 (gage height, 8.01 ft); minimum daily, 73 cfs July 13.
Period of record: Maximum discharge, 47,000 cfs Oct. 24, 1959 (gage height, 16.13 ft), from rating curve extended above 14,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 42 cfs Feb. 11, 1948.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation caused by powerplant above station. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1942(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	237	339	115	87	160	146	1,480	790	189	313	179
2	246	223	319	110	84	140	165	1,410	626	308	240	150
3	955	212	333	110	83	135	516	2,530	674	185	614	135
4	1,660	203	448	110	83	127	613	4,090	638	144	996	127
5	705	197	361	120	82	133	428	2,780	557	128	435	117
6	496	192	328	130	85	140	394	2,190	465	114	282	136
7	396	179	275	125	88	131	401	2,330	415	107	226	144
8	332	175	250	120	93	133	334	2,430	475	99	189	123
9	285	161	246	115	100	126	298	2,650	790	89	160	109
10	252	158	318	110	98	121	370	2,640	475	88	144	91
11	234	174	242	105	96	119	593	3,380	380	81	163	87
12	221	207	230	100	98	119	988	3,690	331	77	192	153
13	212	187	220	98	105	115	1,270	4,340	299	73	138	965
14	242	171	200	98	200	123	1,410	3,000	270	125	123	620
15	303	178	190	98	250	140	990	2,120	250	143	109	552
16	520	196	160	96	200	200	767	2,130	236	96	104	365
17	405	188	155	90	180	250	648	2,150	218	97	93	270
18	307	168	160	87	175	190	680	2,770	198	166	87	240
19	278	181	150	83	165	179	1,060	3,000	189	127	82	215
20	248	233	140	81	155	180	1,900	3,120	173	515	79	192
21	231	1,810	130	77	145	166	2,170	2,480	167	222	79	326
22	220	770	120	82	140	153	1,930	2,440	250	143	86	290
23	423	892	125	83	135	143	1,370	1,710	195	112	113	215
24	836	609	125	84	130	144	1,080	1,150	169	105	137	185
25	578	477	125	86	125	141	1,320	1,010	189	140	92	169
26	428	381	125	90	125	133	1,240	2,500	500	123	80	153
27	366	368	130	100	140	132	1,160	1,570	250	110	81	147
28	319	348	125	100	180	140	1,170	1,120	192	110	822	138
29	287	371	120	96	------	149	1,470	973	160	109	704	135
30	264	349	115	93	------	149	1,320	943	150	360	299	135
31	248	------	115	90	------	145	------	913	------	258	229	------
TOTAL	12,802	10,275	6,418	3,082	3,627	4,556	28,201	71,479	10,671	4,743	7,491	6,863
MEAN	413	343	207	99.4	130	147	940	2,306	356	153	242	229
MAX	1,660	1,810	448	130	250	250	2,170	4,340	790	515	996	965
MIN	212	158	115	77	82	115	146	913	150	73	79	87
CFSM	2.14	1.78	1.07	.52	.67	.76	4.87	11.9	1.84	.79	1.25	1.19
IN.	2.47	1.98	1.24	.59	.70	.88	5.44	13.78	2.06	.91	1.44	1.32

CAL YR 1970 TOTAL 170,453 MEAN 467 MAX 4,420 MIN 52 CFSM 2.42 IN 32.85
WTR YR 1971 TOTAL 170,208 MEAN 466 MAX 4,340 MIN 73 CFSM 2.41 IN 32.81

PEAK DISCHARGE (BASE, 7,100 CFS).--No peak above base.

01075800 Stevens Brook near Wentworth, N.H.

LOCATION.--Lat 43°50'12", long 71°53'07", Grafton County, on left bank 150 ft upstream from highway bridge, 0.2 mile upstream from mouth, and 2.5 miles southeast of Wentworth.

DRAINAGE AREA.--2.94 sq mi.

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 4.13 cfs (19.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 119 cfs May 4 (gage height, 3.07 ft); maximum gage height, 3.38 ft Feb. 14 (backwater from ice); minimum discharge, 0.01 cfs Aug. 18-23.
Period of record: Maximum discharge, 688 cfs July 29, 1969 (gage height, 5.27 ft), from rating curve extended above 120 cfs; minimum, 0.01 cfs Aug. 8-13, Sept. 18-29, 1963, Sept. 16, 19-21, 1964, Aug. 15-18, 1965, Aug. 18-23, 1971.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.2	2.9	1.3	.90	2.9	2.8	18	2.4	.14	.21	.20
2	1.6	1.1	2.9	1.2	.88	2.6	4.4	18	1.8	.12	.21	.14
3	9.4	.98	2.7	1.2	.86	2.5	22	51	2.0	.11	.21	.10
4	13	.98	15	1.2	.84	2.5	17	58	1.6	.10	.55	.10
5	4.6	.98	8.8	1.4	.84	2.3	11	25	1.2	.08	.46	.10
6	2.8	.98	5.4	1.7	.83	2.2	9.7	21	.95	.08	.25	.14
7	2.0	.98	3.6	1.5	.85	2.1	9.1	19	.73	.08	.18	.16
8	1.5	.98	3.0	1.4	.90	2.1	7.0	18	.63	.07	.12	.11
9	1.3	.92	2.7	1.3	.98	2.1	6.0	22	.52	.07	.10	.10
10	1.1	.80	2.5	1.2	1.0	1.9	10	18	.47	.06	.08	.08
11	1.1	.80	2.3	1.1	.92	1.9	21	19	.46	.05	.07	.07
12	1.3	.80	2.1	1.1	.90	1.8	31	17	.46	.05	.07	.08
13	1.5	.80	2.0	1.0	1.2	1.7	33	17	.39	.03	.07	.27
14	2.0	.80	2.1	1.0	3.0	1.9	33	13	.29	.08	.06	.18
15	2.4	1.1	2.1	1.0	10	2.0	18	9.2	.25	.14	.05	.18
16	3.9	1.5	2.1	.98	5.0	5.5	13	8.9	.23	.10	.05	.32
17	3.2	1.7	1.9	.96	3.0	5.0	10	8.9	.23	.07	.03	.29
18	2.3	1.6	1.8	.96	2.5	4.2	13	8.3	.16	.06	.01	.25
19	1.9	1.9	1.8	.95	2.2	3.6	23	7.3	.14	.46	.01	.21
20	1.8	4.1	1.7	.95	2.1	3.3	37	6.3	.12	.41	.01	.16
21	1.5	26	1.6	.92	2.1	3.2	33	5.3	.14	.18	.01	.14
22	1.4	8.2	1.5	.90	2.0	3.0	26	7.6	.18	.14	.01	.16
23	5.7	6.2	1.5	.84	1.9	3.0	17	5.5	.14	.11	.02	.18
24	7.0	5.2	1.5	.82	1.8	2.9	14	3.9	.12	.10	.03	.18
25	4.4	3.6	1.5	.80	1.8	2.8	17	4.5	.28	.10	.05	.16
26	3.1	2.7	1.5	1.0	1.8	2.7	14	19	.63	.08	.05	.12
27	2.3	2.5	1.5	1.3	2.1	2.7	13	9.8	.32	.10	.05	.12
28	1.9	2.4	1.4	1.1	3.0	2.7	14	7.1	.23	.11	1.2	.10
29	1.6	2.4	1.4	1.0	------	2.7	24	5.5	.20	.18	1.6	.10
30	1.4	2.6	1.4	.94	------	2.7	18	3.9	.16	.32	.49	.10
31	1.3	------	1.3	.92	------	2.8	------	3.4	------	.21	.32	------
TOTAL	92.7	86.80	85.5	33.94	56.20	85.3	521.0	458.4	17.43	3.99	6.63	4.60
MEAN	2.99	2.89	2.76	1.09	2.01	2.75	17.4	14.8	.58	.13	.21	.15
MAX	13	26	15	1.7	10	5.5	37	58	2.4	.46	1.6	.32
MIN	1.1	.80	1.3	.80	.83	1.7	2.8	3.4	.12	.03	.01	.07
CFSM	1.02	.98	.94	.37	.68	.94	5.92	5.03	.20	.04	.07	.05
IN.	1.17	1.10	1.08	.43	.71	1.08	6.59	5.80	.22	.05	.08	.06

CAL YR 1970 TOTAL 1,658.83 MEAN 4.54 MAX 60 MIN .02 CFSM 1.54 IN 20.99
WTR YR 1971 TOTAL 1,452.49 MEAN 3.98 MAX 58 MIN .01 CFSM 1.35 IN 18.38

PEAK DISCHARGE (BASE, 90 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	0145	3.07	119				

01076000 Baker River near Rumney, N.H.

LOCATION.--Lat 43°47'46", long 71°50'42", Grafton County, on right bank 200 ft upstream from small right-bank tributary, 0.3 mile upstream from Halls Brook, and 1.8 miles southwest of Rumney.

DRAINAGE AREA.--143 sq mi.

PERIOD OF RECORD.--October 1928 to current year. October 1928 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since Sept. 10, 1938. Altitude of gage is 495 ft (from topographic map).

AVERAGE DISCHARGE.--43 years, 249 cfs (23.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,530 cfs May 4 (gage height, 7.45 ft); minimum, 18 cfs Aug. 27.

Period of record: Maximum discharge, 21,400 cfs June 15, 1942 (gage height, 15.50 ft), from rating curve extended above 3,800 cfs on basis of slope-area measurements at gage heights 13.03, 14.49, and 15.50 ft; minimum, 6.5 cfs Dec. 4, 1947, caused by ice conditions upstream.

Maximum discharge since valley was settled about 1766, 25,900 cfs Nov. 3, 1927 (gage height, 17.4 ft, from floodmarks), from rating curve extended above 3,800 cfs as described above.

REMARKS.--Records excellent except those for winter period, which are fair. High flow slightly affected by retarding reservoirs since 1968.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 781: 1934(M). WSP 1231: 1929-33(M), 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	87	149	73	72	150	137	1,030	202	43	101	67
2	94	83	143	71	72	140	152	972	167	71	81	51
3	195	79	146	71	71	130	409	1,870	178	53	116	43
4	573	75	330	75	70	125	566	3,060	174	43	206	38
5	268	73	385	80	68	130	465	1,620	149	37	116	38
6	174	69	259	88	66	125	427	1,290	126	34	81	38
7	129	67	180	84	62	120	415	1,140	113	31	62	37
8	108	65	125	80	62	120	336	1,040	103	27	51	34
9	92	63	120	76	68	110	296	1,060	99	26	43	31
10	81	62	140	72	70	105	391	916	87	24	38	27
11	77	63	135	70	68	105	671	932	77	22	37	24
12	81	69	130	68	66	100	1,050	868	69	21	45	29
13	83	71	120	66	75	95	1,340	884	63	20	38	83
14	101	67	120	67	120	105	1,410	706	58	26	32	79
15	116	75	110	68	230	120	1,010	510	55	38	29	87
16	195	92	100	66	210	180	797	458	53	31	26	69
17	178	97	105	65	180	235	636	433	50	27	24	57
18	140	87	110	65	160	200	657	478	46	45	22	50
19	121	90	100	65	150	190	980	445	43	43	21	45
20	106	126	95	65	140	170	1,670	409	40	118	20	42
21	97	608	90	65	130	160	1,730	341	38	69	20	51
22	92	427	80	65	125	150	1,490	369	45	50	20	67
23	164	352	78	65	120	140	1,160	320	43	40	21	51
24	259	281	78	65	115	130	956	250	38	34	24	45
25	206	191	80	66	115	125	1,080	225	40	35	21	40
26	161	146	82	70	110	125	964	741	155	35	19	37
27	134	140	82	73	120	120	924	510	94	35	19	34
28	118	131	78	76	170	120	908	380	69	37	206	32
29	108	146	76	78	------	130	1,180	310	55	34	237	32
30	99	146	76	76	------	138	1,050	263	48	143	111	32
31	92	------	74	74	------	135	------	237	------	94	92	------
TOTAL	4,558	4,128	3,976	2,208	3,085	4,228	25,257	24,067	2,577	1,386	1,979	1,390
MEAN	147	138	128	71.2	110	136	842	776	85.9	44.7	63.8	46.3
MAX	573	608	385	88	230	235	1,730	3,060	202	143	237	87
MIN	77	62	74	65	62	95	137	225	38	20	19	24
CFSM	1.03	.97	.90	.50	.77	.95	5.89	5.43	.60	.31	.45	.32
IN.	1.19	1.07	1.03	.57	.80	1.10	6.57	6.26	.67	.36	.51	.36

CAL YR 1970 TOTAL 83,678 MEAN 229 MAX 2,280 MIN 16 CFSM 1.60 IN 21.77
WTR YR 1971 TOTAL 78,839 MEAN 216 MAX 3,060 MIN 19 CFSM 1.51 IN 20.51

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	0530	7.45	4,530				

01076500 Pemigewasset River at Plymouth, N. H.

LOCATION.--Lat 43°45'33", long 71°41'10", Grafton County, on right bank 150 ft downstream from bridge at Plymouth and 0.3 mile downstream from Baker River.

DRAINAGE AREA.--622 sq mi.

PERIOD OF RECORD.--October 1903 to current year. Records for April 1886 to September 1903, published in WSP 124, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 457.07 ft above mean sea level. Prior to Jan. 1, 1910, nonrecording gage at sites 150 and 200 ft upstream at present datum or datum 1.11 ft lower. Jan. 1, 1910, to Sept. 30, 1926, nonrecording gage at site 200 ft upstream at present datum.

AVERAGE DISCHARGE.--68 years, 1,333 cfs (29.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,000 cfs May 4 (gage height, 10.94 ft); minimum, 181 cfs Aug. 27.
Period of record: Maximum discharge, 65,400 cfs Mar. 19, 1936 (gage height, 29.0 ft, from floodmarks), from rating curve extended above 43,000 cfs on basis of computations of flow over dam at gage heights 23.0, 27.4, and 29.0 ft; minimum, 39 cfs Oct. 1, 3, 4, 1948; minimum daily, 45 cfs Sept. 20, 1923.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation during period 1940-52 caused by powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 471: 1912-14. WSP 726: Drainage area. WSP 1231: 1904-11, 1913-14, 1917-18, 1919(M), 1920-25, 1926-27(M), 1929-31(M). WSP 1721: 1959(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810	632	1,070	440	345	670	620	4,320	1,650	312	800	425
2	608	584	990	430	340	640	650	4,240	1,380	615	553	333
3	920	550	1,030	420	335	620	1,750	7,680	1,340	444	748	298
4	3,610	508	1,590	420	330	620	2,770	14,600	1,340	319	2,160	270
5	2,000	497	1,910	440	340	610	2,180	8,880	1,200	284	1,120	258
6	1,310	476	1,350	520	350	610	1,970	6,370	1,010	264	700	252
7	1,000	446	1,000	520	370	610	1,920	5,800	890	246	520	270
8	822	426	750	480	390	610	1,650	5,660	820	240	416	258
9	680	408	860	450	410	590	1,410	5,840	1,180	222	348	240
10	596	388	950	440	420	580	1,660	5,170	890	210	312	222
11	528	417	870	430	410	590	2,430	6,080	720	205	305	205
12	508	497	820	420	400	580	4,040	6,760	640	190	366	240
13	497	497	760	400	400	570	5,330	7,700	564	186	312	1,250
14	539	455	720	400	500	590	5,900	6,090	510	210	270	1,140
15	706	446	650	410	750	640	4,320	4,140	463	270	246	1,240
16	1,640	550	580	400	840	720	3,240	3,780	444	240	234	850
17	1,430	572	600	380	730	900	2,570	3,600	408	216	222	640
18	1,030	508	620	360	670	800	2,660	4,000	382	252	210	531
19	834	508	580	350	640	730	3,450	4,380	357	284	200	454
20	719	771	530	340	600	730	6,330	4,510	333	724	190	400
21	656	4,010	490	330	580	730	7,680	4,020	319	521	186	434
22	608	2,750	450	330	570	680	6,390	3,600	382	326	190	630
23	1,020	2,250	460	340	560	660	4,940	3,170	382	264	200	454
24	2,440	2,150	470	340	560	620	3,700	2,380	326	240	234	382
25	1,860	1,510	480	340	560	610	4,370	2,070	326	258	216	340
26	1,320	1,180	480	350	550	590	4,120	4,210	1,020	270	190	312
27	1,090	1,080	470	370	560	580	3,850	3,230	650	258	190	291
28	930	1,000	470	380	660	580	3,720	2,460	434	252	588	277
29	834	1,070	460	360	------	590	4,810	2,120	348	264	2,020	270
30	745	1,040	450	355	------	610	4,420	1,940	333	876	800	270
31	680	------	440	350	------	620	------	1,810	------	690	575	------
TOTAL	32,970	28,176	23,350	12,295	14,170	19,880	104,850	150,610	21,041	10,152	15,621	13,436
MEAN	1,064	939	753	397	506	641	3,495	4,858	701	327	504	448
MAX	3,610	4,010	1,910	520	840	900	7,680	14,600	1,650	876	2,160	1,250
MIN	497	388	440	330	330	570	620	1,810	319	186	186	205
CFSM	1.71	1.51	1.21	.64	.81	1.03	5.62	7.81	1.13	.53	.81	.72
IN.	1.97	1.69	1.40	.74	.85	1.19	6.27	9.01	1.26	.61	.93	.80

CAL YR 1970 TOTAL 457,662 MEAN 1,254 MAX 12,700 MIN 135 CFSM 2.02 IN 27.37
WTR YR 1971 TOTAL 446,551 MEAN 1,223 MAX 14,600 MIN 186 CFSM 1.97 IN 26.71

PEAK DISCHARGE (BASE, 12,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	0900	10.94	17,000				

01077000 Squam River at Ashland, N.H.

LOCATION.--Lat 43°42'19", long 71°37'49", Grafton County, on right bank 200 ft upstream from highway bridge, 0.7 mile north of Ashland, and 1.4 miles downstream from Little Squam Lake.

DRAINAGE AREA.--57.6 sq mi.

PERIOD OF RECORD.--August 1939 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 545 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 85.1 cfs.

EXTREMES.--Current year: Maximum discharge, 170 cfs Mar. 11 (gage height, 10.90 ft); minimum daily, 5.7 cfs July 8.
Period of record: Maximum discharge, 617 cfs Apr. 19, 23, 1969 (gage height, 12.24 ft); minimum daily, 1.4 cfs Nov. 28, 1969.

REMARKS.--Records excellent. Flow completely regulated by Squam and Little Squam Lakes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	59	110	59	78	118	146	65	75	77	66	65
2	50	105	110	36	78	119	146	65	74	77	66	65
3	28	112	110	68	77	118	148	68	75	43	66	65
4	59	112	112	108	77	118	148	96	74	32	66	22
5	94	112	59	108	77	118	148	129	74	32	66	30
6	94	56	86	108	78	118	148	129	72	29	66	63
7	94	32	110	98	77	118	148	129	72	13	66	63
8	94	68	110	78	78	118	108	129	74	5.7	66	63
9	50	110	110	78	78	116	74	131	75	11	66	63
10	30	110	110	78	78	116	75	103	75	11	66	63
11	30	110	110	78	78	131	75	83	75	11	66	63
12	60	110	56	78	78	146	77	83	75	12	66	63
13	93	56	66	78	78	146	77	83	77	11	66	63
14	93	33	110	78	80	146	71	85	77	11	66	63
15	93	68	110	78	78	148	63	85	77	12	66	63
16	93	110	110	78	78	148	63	85	77	34	66	63
17	50	110	110	78	80	148	63	85	77	52	65	63
18	60	110	110	78	80	146	63	85	77	56	65	63
19	93	110	59	78	78	146	65	85	77	62	65	63
20	93	103	69	78	78	146	65	85	77	65	65	63
21	93	59	108	78	78	146	65	83	77	65	65	63
22	93	66	108	78	78	146	65	85	77	65	65	63
23	93	110	108	78	78	146	65	83	77	65	65	63
24	52	110	66	78	78	146	65	83	77	65	65	63
25	59	110	36	78	78	146	65	81	77	65	65	63
26	93	53	36	78	96	146	65	77	77	65	65	63
27	93	33	77	78	118	146	65	77	77	65	65	63
28	93	33	110	78	118	146	65	77	77	65	65	63
29	93	66	110	78	------	146	65	77	77	65	65	63
30	53	110	108	78	------	146	65	77	77	66	65	63
31	32	------	108	78	------	146	------	75	------	66	66	------
TOTAL	2,291	2,546	2,912	2,457	2,284	4,233	2,621	2,763	2,276	1,373.7	2,032	1,822
MEAN	73.9	84.9	93.9	79.3	81.6	137	87.4	89.1	75.9	44.3	65.5	60.7
MAX	94	112	112	108	118	148	148	131	77	77	66	65
MIN	28	32	36	36	77	116	63	65	72	5.7	65	22

CAL YR 1970 TOTAL 36,890.0 MEAN 101 MAX 293 MIN 20
WTR YR 1971 TOTAL 29,610.7 MEAN 81.1 MAX 148 MIN 5.7

MERRIMACK RIVER BASIN

01078000 Smith River near Bristol, N.H.

LOCATION.--Lat 43°34'04", long 71°44'54", Merrimack County, on right bank in Hill, 1.5 miles upstream from mouth and 1.8 miles southwest of Bristol.

DRAINAGE AREA.--85.8 sq mi.

PERIOD OF RECORD.--May 1918 to current year.

GAGE.--Water-stage recorder. Datum of gage is 449.80 ft above mean sea level (levels by Corps of Engineers). Prior to Nov. 25, 1933, nonrecording gage at site 1.5 miles upstream at different datum.

AVERAGE DISCHARGE.--53 years, 140 cfs (22.16 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,400 cfs May 4 (gage height, 6.05 ft); minimum, 8.2 cfs Aug. 24, 25, 26.
Period of record: Maximum discharge, 8,100 cfs Mar. 19, 1936 (gage height, 16.09 ft, from floodmarks), from rating curve extended above 2,700 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 2.7 cfs Aug. 2, 1933.
Maximum stage since at least 1885, that of Mar. 19, 1936.

REMARKS.--Records excellent except those for winter period and period of indefinite stage-discharge relation, which are fair. Prior to 1954, some diurnal fluctuation caused by small mill above station; greater fluctuation prior to 1941.

REVISIONS (WATER YEARS).--WSP 711: Drainage area. WSP 781: 1934. WSP 1231: 1919, 1920-21(M), 1922-31, 1932-33(M), 1941-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	43	86	44	42	129	119	540	75	20	27	17
2	24	41	80	43	41	126	134	462	67	18	25	14
3	27	40	75	43	41	116	276	635	67	17	25	12
4	62	38	126	43	41	104	439	1,260	70	17	32	11
5	63	38	183	47	40	97	448	1,080	66	15	32	10
6	46	38	140	53	40	93	390	770	59	15	25	12
7	37	36	104	60	39	88	350	545	53	15	21	14
8	31	35	79	52	39	84	294	382	47	15	19	17
9	27	33	73	49	40	82	248	354	44	15	18	15
10	25	32	78	47	41	78	276	336	39	15	17	13
11	23	38	72	45	40	75	462	279	36	15	20	11
12	22	43	70	42	41	73	695	235	34	15	20	17
13	22	43	66	40	45	76	840	250	32	14	15	24
14	23	40	64	40	80	72	910	358	30	16	14	39
15	29	44	58	40	103	78	805	288	28	15	13	40
16	129	59	56	40	109	122	625	228	27	15	13	34
17	136	61	56	40	116	181	462	203	26	16	11	28
18	85	54	58	40	118	205	435	185	24	16	11	24
19	60	55	60	40	108	192	560	163	22	18	10	21
20	47	85	56	40	96	158	830	145	21	31	9.6	19
21	43	213	52	40	89	149	1,000	132	20	26	9.2	19
22	44	218	48	40	83	135	980	150	19	21	10	17
23	129	183	47	40	79	123	840	154	19	18	9.9	17
24	218	175	47	40	77	116	690	129	18	16	9.2	15
25	157	132	48	40	74	107	635	116	20	15	8.4	14
26	108	109	50	41	72	109	605	114	50	15	9.0	13
27	82	89	49	43	83	108	540	114	48	16	9.9	12
28	67	77	47	45	115	103	507	105	34	15	47	12
29	57	76	46	46	------	103	570	96	27	15	61	12
30	51	80	45	45	------	113	615	87	23	20	37	12
31	46	------	45	43	------	119	------	83	------	22	23	------
TOTAL	1,947	2,248	2,164	1,351	1,932	3,514	16,580	9,978	1,145	532	611.2	535
MEAN	62.8	74.9	69.8	43.6	69.0	113	553	322	38.2	17.2	19.7	17.8
MAX	218	218	183	60	118	205	1,000	1,260	75	31	61	40
MIN	22	32	45	40	39	72	119	83	18	14	8.4	10
CFSM	.73	.87	.81	.51	.80	1.32	6.45	3.75	.45	.20	.23	.21
IN.	.84	.97	.94	.59	.84	1.52	7.19	4.33	.50	.23	.26	.23

CAL YR 1970 TOTAL 48,026.9 MEAN 132 MAX 1,040 MIN 6.8 CFSM 1.54 IN 20.82
WTR YR 1971 TOTAL 42,537.2 MEAN 117 MAX 1,260 MIN 8.4 CFSM 1.36 IN 18.44

PEAK DISCHARGE (BASE, 1,150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	0300	6.05	1,400				

NOTE.--Stage-discharge relation indefinite July 5 to Aug. 28.

01080000 Lake Winnipesaukee at Weirs Beach, N.H.

(Formerly published as Lake Winnipesaukee at The Weirs)

LOCATION.--Lat 43°36'27", long 71°27'30", Belknap County, 1,300 ft north of highway bridge at Weirs Beach.

DRAINAGE AREA.--363 sq mi at outlet at Lakeport.

PERIOD OF RECORD.--September 1933 to current year. Prior to November 1937, monthend contents only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft above mean sea level. Prior to November 1937, nonrecording gage at lake outlet at Lakeport at datum 0.53 ft higher. Nov. 24, 1937, to Nov. 7, 1965, water-stage recorder at site 500 ft south at present datum.

EXTREMES.--Current year: Maximum daily gage height, 4.68 ft May 17; minimum daily, 2.52 ft Apr. 1, 2.
Period of record: Maximum daily gage height, 5.86 ft May 22, 23, 1954; minimum daily, 0.63 ft Dec. 11, 1941.

REMARKS.--Lake used for recreation and conservation for development of water power. Usable capacity, 7,220,000,000 cu ft between elevations 500.65 and 504.32 ft above mean sea level. Stage regulated at outlet and by Wentworth, Merrymeeting (see p. 65), and other lakes. Contents given herein are computed from gage height at 2400 on last day of month, eliminating the effect of seiche and wind action.

Capacity table (gage height, in feet, and contents, in millions of cubic feet)

2.0	13,880
3.0	15,840
4.0	17,840
5.0	19,850

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.08	3.18	3.26	3.13	2.66	2.72	2.52	4.21	4.40	4.17	3.94	3.53
2	3.06	3.17	3.24	3.11	2.63	2.70	2.52	4.25	4.39	4.16	3.94	3.52
3	3.08	3.17	3.24	3.09	2.61	2.71	2.54	4.35	4.41	4.13	3.95	3.50
4	3.13	3.16	3.30	3.08	2.60	2.75	2.58	4.48	4.40	4.11	3.96	3.49
5	3.11	3.16	3.31	3.08	2.60	2.75	2.60	4.52	4.37	4.10	3.93	3.48
6	3.10	3.15	3.32	3.06	2.60	2.75	2.63	4.53	4.38	4.08	3.90	3.49
7	3.10	3.15	3.28	3.04	2.58	2.76	2.67	4.53	4.38	4.05	3.87	3.45
8	3.09	3.15	3.31	3.01	2.60	2.79	2.68	4.55	4.36	4.03	3.85	3.44
9	3.09	3.14	3.35	3.00	2.62	2.76	2.71	4.60	4.38	4.02	3.84	3.42
10	3.09	3.14	3.35	2.98	2.60	2.73	2.74	4.61	4.36	3.99	3.82	3.41
11	3.07	3.18	3.37	2.96	2.59	2.73	2.82	4.62	4.35	3.97	3.82	3.40
12	3.06	3.21	3.38	2.93	2.57	2.72	2.90	4.61	4.34	3.93	3.82	3.43
13	3.06	3.20	3.36	2.91	2.57	2.71	2.98	4.63	4.34	3.91	3.80	3.47
14	3.06	3.21	3.36	2.91	2.61	2.68	3.08	4.66	4.34	3.91	3.79	3.48
15	3.07	3.22	3.33	2.90	2.60	2.66	3.17	4.67	4.31	3.88	3.75	3.48
16	3.10	3.20	3.32	2.87	2.58	2.66	3.25	4.67	4.30	3.87	3.72	3.47
17	3.07	3.21	3.34	2.86	2.58	2.65	3.31	4.68	4.29	3.86	3.69	3.48
18	3.04	3.21	3.29	2.84	2.57	2.63	3.37	4.66	4.28	3.83	3.68	3.46
19	3.03	3.22	3.32	2.92	2.56	2.64	3.44	4.64	4.26	3.85	3.66	3.46
20	3.02	3.22	3.29	2.80	2.57	2.71	3.52	4.61	4.25	3.89	3.64	3.44
21	3.01	3.21	3.30	2.78	2.59	2.69	3.61	4.58	4.24	3.88	3.61	3.40
22	3.01	3.25	3.29	2.76	2.58	2.68	3.69	4.55	4.25	3.87	3.60	3.40
23	3.07	3.25	3.28	2.75	2.60	2.67	3.76	4.52	4.24	3.84	3.57	3.38
24	3.18	3.25	3.29	2.73	2.64	2.64	3.83	4.49	4.23	3.83	3.49	3.31
25	3.22	3.24	3.30	2.71	2.65	2.62	3.88	4.48	4.22	3.81	3.49	3.29
26	3.23	3.25	3.27	2.70	2.66	2.60	3.95	4.47	4.25	3.80	3.49	3.28
27	3.22	3.23	3.23	2.71	2.71	2.59	4.00	4.46	4.24	3.79	3.50	3.26
28	3.20	3.24	3.19	2.70	2.73	2.58	4.05	4.45	4.24	3.78	3.59	3.24
29	3.19	3.25	3.18	2.68	------	2.56	4.12	4.44	4.20	3.79	3.58	3.22
30	3.19	3.25	3.12	2.70	------	2.55	4.18	4.42	4.18	3.88	3.57	3.20
31	3.18	------	3.14	2.68	------	2.53	------	4.41	------	3.90	3.56	------
MEAN	3.10	3.20	3.29	2.88	2.61	2.67	3.24	4.53	4.31	3.93	3.72	3.41
MAX	3.23	3.25	3.38	3.13	2.73	2.79	4.18	4.68	4.41	4.17	3.96	3.53
MIN	3.01	3.14	3.12	2.68	2.56	2.53	2.52	4.21	4.18	3.78	3.49	3.20
(†)	16,180	16,340	16,120	15,190	15,310	14,900	18,240	18,640	18,200	17,720	16,940	16,240
(‡)	+59.7	+61.7	-82.1	-347	+49.6	-153	+1,289	+149	-170	-179	-291	-270

CAL YR 1970 MEAN 3.55 MAX 4.55 MIN 2.83 (‡) -57.1
WTR YR 1971 MEAN 3.41 MAX 4.68 MIN 2.52 (‡) +6.98

† Contents, in millions of cubic feet, at 2400 on last day of month.
‡ Change in contents, in cubic feet per second.

01080500 Lake Winnipesaukee Outlet at Lakeport, N.H.

LOCATION.--Lat 43°32'57", long 71°27'54", Belknap County, 100 ft upstream from highway bridge across Paugus Bay at Lakeport.

DRAINAGE AREA.--363 sq mi.

PERIOD OF RECORD.--January 1860 to December 1911 (monthly gage heights only, published in WSP 301), June 1933 to current year.

GAGE.--Water-stage recorder, Keeler deflection meter, and measuring flume. Datum of gage is 500.55 ft above mean sea level, datum of 1929. January 1860 to December 1911, nonrecording gage at site 150 ft downstream at same datum. June 1, 1933, to Sept. 30, 1936, nonrecording gage and continuous-recording current meter at present site and datum. Oct. 1, 1936, to May 23, 1944, discharge computed from flow over spillway and through gates and wheels at site 150 ft downstream.

AVERAGE DISCHARGE.--38 years, 520 cfs.

EXTREMES.--Current year: Maximum daily discharge, 1,340 cfs May 18; minimum daily, 185 cfs Feb. 24.
Period of record: Maximum daily discharge, 2,890 cfs Mar. 31, 1936; no flow Sept. 29, 1962.

REMARKS.--Records good. Flow completely regulated by Winnipesaukee (see preceding page), Wentworth, Merrymeeting (see p. 65), and other lakes. Daily discharge computed from relation between discharge, stage, and deflection of vane in measuring flume.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	300	300	750	720	715	1,050	280	485	220	290	290
2	240	300	300	760	715	715	1,050	280	250	225	290	290
3	240	300	300	755	715	715	1,100	355	230	220	290	275
4	240	300	300	760	705	710	1,200	800	230	220	290	275
5	240	300	300	750	700	705	1,190	1,310	260	220	290	275
6	240	300	300	750	715	705	1,180	1,300	230	220	290	275
7	235	300	300	750	710	710	1,160	1,090	245	220	285	275
8	235	300	300	750	715	820	950	265	230	220	300	255
9	235	300	300	730	715	1,040	535	460	250	220	285	255
10	230	300	300	730	710	1,020	515	840	230	220	275	275
11	230	300	445	710	705	1,020	530	840	245	220	275	275
12	230	300	760	730	700	1,020	535	870	225	235	285	275
13	225	300	775	735	720	1,010	440	875	225	250	285	265
14	225	300	770	735	720	1,010	245	880	225	290	285	260
15	225	300	760	730	720	1,010	250	875	225	270	285	260
16	225	300	765	735	715	1,010	250	875	225	270	285	265
17	225	300	590	735	715	1,010	255	1,100	225	270	280	290
18	225	300	255	725	715	1,000	255	1,340	225	270	280	290
19	225	300	255	720	715	1,010	260	1,330	225	290	280	290
20	250	300	410	715	715	1,020	260	1,320	225	290	290	285
21	295	300	760	710	715	1,010	260	1,310	195	290	295	265
22	295	300	760	710	315	1,040	265	1,310	195	290	295	265
23	295	300	755	720	200	1,020	265	1,310	225	285	300	255
24	295	300	755	715	185	1,050	270	1,090	225	285	290	270
25	295	300	755	715	215	1,030	270	655	225	300	295	285
26	295	300	770	715	215	1,060	250	630	225	285	300	285
27	295	300	765	710	365	1,060	250	625	225	285	290	280
28	295	300	770	710	715	1,050	250	625	225	285	280	280
29	295	300	765	710	------	1,050	255	615	225	295	290	270
30	295	300	755	705	------	1,050	255	615	225	285	290	270
31	295	------	755	710	------	1,050	------	615	------	290	290	------
TOTAL	7,905	9,000	17,150	22,585	17,185	29,445	15,800	26,685	7,100	8,035	8,930	8,220
MEAN	255	300	553	729	614	950	527	861	237	259	288	274
MAX	295	300	775	760	720	1,060	1,200	1,340	485	300	300	290
MIN	225	300	255	705	185	705	245	265	195	220	275	255

CAL YR 1970 TOTAL 215,815 MEAN 591 MAX 1,600 MIN 225
WTR YR 1971 TOTAL 178,040 MEAN 488 MAX 1,340 MIN 185

01081000 Winnipesaukee River at Tilton, N.H.

LOCATION.--Lat 43°26'31", long 71°35'20", Belknap County, on right bank at Tilton and 0.3 mile upstream from Packer Brook.

DRAINAGE AREA.--471 sq mi.

PERIOD OF RECORD.--January 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 441.87 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--34 years, 677 cfs.

EXTREMES.--Current year: Maximum discharge, 1,750 cfs May 6 (gage height, 5.58 ft); minimum daily, 211 cfs July 9.
Period of record: Maximum discharge, 3,810 cfs Sept. 21, 1938 (gage height, 7.90 ft); maximum gage height, 7.93 ft Mar. 27, 1953; minimum daily discharge, 48 cfs Aug. 31, 1941.

REMARKS.--Records good. Flow regulated by powerplants prior to 1967 and by Winnipesaukee (see sta 01080000), Winnisquam 4.5 miles upstream, Wentworth, Merrymeeting (see p. 65), and other lakes above station.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	362	431	809	815	847	1,240	598	607	297	408	317
2	287	361	449	810	810	847	1,260	574	403	297	397	304
3	294	357	569	807	815	841	1,430	662	369	282	392	296
4	370	353	567	810	815	841	1,560	1,130	350	261	423	296
5	366	375	583	816	809	855	1,590	1,640	333	251	408	296
6	339	389	537	821	813	850	1,560	1,740	324	241	373	313
7	320	368	514	823	806	856	1,570	1,720	315	230	370	317
8	305	358	467	820	814	886	1,530	999	307	222	366	311
9	297	351	457	820	823	1,040	1,370	775	307	211	363	310
10	287	350	459	819	824	1,070	1,300	1,270	293	226	326	307
11	280	373	554	818	815	1,090	1,440	1,180	282	227	301	302
12	276	403	873	815	814	1,100	1,510	1,300	272	224	295	323
13	276	401	902	815	827	1,100	1,510	1,300	268	228	287	350
14	273	395	905	817	860	1,110	1,480	1,200	262	216	288	362
15	273	402	895	820	880	1,130	1,330	1,160	253	213	286	402
16	320	424	884	815	890	1,190	1,180	1,130	251	342	285	534
17	316	414	905	820	878	1,250	1,060	1,200	248	299	283	629
18	287	402	868	815	868	1,240	1,000	1,370	245	297	285	600
19	273	406	828	815	861	1,240	970	1,430	247	296	286	568
20	259	428	798	810	865	1,270	917	1,550	243	249	279	552
21	253	487	781	810	862	1,270	931	1,530	245	234	279	577
22	263	497	779	812	773	1,260	925	1,560	261	233	283	592
23	331	482	790	811	534	1,240	830	1,540	306	236	285	640
24	525	475	804	807	493	1,230	616	1,490	245	240	283	606
25	543	449	809	805	472	1,220	598	1,320	249	249	279	529
26	484	428	808	814	492	1,210	609	896	319	252	280	470
27	440	416	809	815	757	1,200	611	803	309	255	304	432
28	410	412	809	815	816	1,190	580	689	284	247	409	402
29	394	414	808	820	------	1,200	597	679	257	258	530	378
30	382	428	808	827	------	1,220	616	678	254	364	368	361
31	370	------	810	824	------	1,230	------	681	------	374	332	------
TOTAL	10,390	12,160	22,260	25,275	21,901	34,123	33,720	35,794	8,908	8,051	10,333	12,676
MEAN	335	405	718	815	782	1,101	1,124	1,155	297	260	333	423
MAX	543	497	905	827	890	1,270	1,590	1,740	607	374	530	640
MIN	253	350	431	805	472	841	580	574	243	211	279	296

CAL YR 1970 TOTAL 282,965 MEAN 775 MAX 2,390 MIN 228
WTR YR 1971 TOTAL 235,591 MEAN 645 MAX 1,740 MIN 211

01081500 Merrimack River at Franklin Junction, N.H.

LOCATION.--Lat 43°25'26", long 71°39'12", Merrimack County, on right bank at Franklin Junction, 1 mile downstream from confluence of Pemigewasset and Winnipesaukee Rivers.

DRAINAGE AREA.--1,507 sq mi.

PERIOD OF RECORD.--July 1903 to January 1904, March 1904 to January 1905, March 1905 to current year.

GAGE.--Water-stage recorder. Datum of gage is 250.4 ft above mean sea level, unadjusted. Prior to Sept. 13, 1923, nonrecording gage at bridge 350 ft downstream at same datum.

AVERAGE DISCHARGE.--66 years (1905-71), 2,724 cfs (24.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,300 cfs May 5 (gage height, 13.69 ft); minimum daily, 525 cfs July 10.
Period of record: Maximum discharge, 83,000 cfs Mar. 19, 1936 (gage height, 36.4 ft, from floodmarks), from rating curve extended above 30,000 cfs on basis of slope-area measurement and computation of flow over dam at gage height 29.5 ft, and velocity-area study; minimum daily, 169 cfs Aug. 28, 1965. Maximum discharge since construction of Franklin Falls Reservoir in 1942, 22,400 cfs Apr. 4, 1951 (gage height, 16.34 ft).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants, by Franklin Falls Reservoir (4 miles upstream) since 1942, and by Squam, Little Squam, Newfound, Winnipesaukee, Winnisquam, Wentworth, Merrymeeting, and other lakes. See page 65 for description and monthend contents of many of these reservoirs.

REVISIONS (WATER YEARS).--WSP 401: 1914. WSP 641: 1923(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1911-13, 1916-17(M), 1919(M), 1922(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,840	1,180	1,840	1,700	1,700	2,570	2,800	7,370	2,850	1,020	1,360	1,080
2	1,360	1,270	1,720	1,350	1,600	2,540	2,970	6,970	2,250	781	1,460	793
3	627	1,040	1,910	1,600	1,550	2,240	3,570	8,060	1,980	940	1,500	762
4	1,460	1,130	2,490	1,700	1,300	2,170	5,090	14,400	2,230	816	1,730	651
5	2,460	1,250	3,420	1,800	1,450	2,100	5,610	16,400	2,050	799	2,390	658
6	2,540	1,060	2,800	1,850	1,450	1,800	4,780	13,300	1,680	909	1,700	715
7	2,410	916	2,100	1,950	1,600	1,850	5,620	10,900	1,500	656	1,310	702
8	2,350	1,030	1,850	1,900	1,700	1,850	5,260	9,380	1,470	753	1,180	862
9	1,700	980	1,500	1,800	1,600	2,300	4,100	8,690	1,630	710	1,200	781
10	1,140	1,040	1,500	1,700	1,650	2,180	4,020	9,020	1,880	525	1,350	736
11	595	1,180	1,800	1,700	1,600	2,180	4,680	8,220	1,370	555	1,280	655
12	614	1,250	2,130	1,700	1,550	2,060	6,670	8,940	1,300	662	1,530	758
13	845	1,330	2,070	1,700	1,500	2,030	9,390	9,640	1,030	587	956	1,410
14	845	940	2,310	1,700	1,800	1,940	10,400	9,970	1,180	646	556	2,030
15	1,070	1,090	2,260	1,600	2,200	2,470	9,780	8,060	1,150	620	549	1,800
16	1,810	1,300	2,150	1,600	2,700	2,850	7,520	6,480	1,000	708	582	1,680
17	1,380	1,340	2,000	1,600	2,900	3,480	5,830	5,350	889	710	718	1,650
18	845	1,190	1,850	1,700	2,600	3,490	5,410	5,840	994	681	1,140	1,400
19	838	1,470	1,850	1,650	2,300	3,360	5,790	6,640	874	920	1,150	1,420
20	956	1,600	1,800	1,600	1,900	3,070	8,500	6,830	859	1,160	793	1,220
21	1,040	2,770	1,850	1,550	1,950	2,900	11,200	6,730	1,070	1,350	582	1,020
22	1,180	4,870	1,800	1,400	1,800	2,610	11,200	6,460	868	928	549	1,240
23	1,590	3,060	1,700	1,450	1,550	2,570	9,980	6,050	803	853	808	1,390
24	2,710	3,310	1,500	1,500	1,500	2,740	7,980	5,330	882	589	675	1,330
25	3,270	2,650	1,600	1,550	1,450	2,560	7,090	3,870	822	659	640	1,060
26	2,330	2,260	1,800	1,600	1,500	2,540	7,270	4,000	1,370	927	710	1,010
27	1,900	1,930	1,600	1,650	1,600	2,490	6,840	5,140	1,770	921	845	1,030
28	1,290	1,570	1,900	1,650	2,310	2,450	6,260	3,940	970	883	1,030	1,090
29	1,350	1,790	1,900	1,700	------	2,540	6,450	3,380	1,080	916	2,030	938
30	1,220	1,900	1,900	1,650	------	2,690	7,800	3,280	947	1,610	1,910	1,100
31	1,210	------	1,800	1,600	------	2,710	------	2,950	------	1,450	1,260	------
TOTAL	46,775	49,696	60,700	51,200	50,310	77,330	199,860	231,590	40,748	26,244	35,473	32,971
MEAN	1,509	1,657	1,958	1,652	1,797	2,495	6,662	7,471	1,358	847	1,144	1,099
MAX	3,270	4,870	3,420	1,950	2,900	3,490	11,200	16,400	2,850	1,610	2,390	2,030
MIN	595	916	1,500	1,350	1,300	1,800	2,800	2,950	803	525	549	651
CFSM	1.00	1.10	1.30	1.10	1.19	1.66	4.42	4.96	.90	.56	.76	.73
IN.	1.15	1.23	1.50	1.26	1.24	1.91	4.93	5.72	1.01	.65	.88	.81

CAL YR 1970 TOTAL 999,507 MEAN 2,738 MAX 14,500 MIN 536 CFSM 1.82 IN 24.67
WTR YR 1971 TOTAL 902,897 MEAN 2,474 MAX 16,400 MIN 525 CFSM 1.64 IN 22.29

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01082000 Contoocook River at Peterborough, N.H.

LOCATION.--Lat 42°51'45", long 71°57'35", Hillsborough County, on left bank 1,100 ft downstream from milldam, 1 mile south of Peterborough, and 1.5 miles upstream from Nubanusit Brook.

DRAINAGE AREA.--68.1 sq mi.

PERIOD OF RECORD.--July 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (from topographic map).

AVERAGE DISCHARGE.--26 years, 113 cfs (22.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 830 cfs Apr. 13 (gage height, 3.88 ft); minimum daily, 13 cfs July 26, 27.
Period of record: Maximum discharge, 2,640 cfs Nov. 26, 1950 (gage height, 6.35 ft), from rating curve extended above 1,700 cfs; minimum daily, 0.8 cfs Sept. 15, 16, 1953.
Flood in September 1938 reached a stage of about 15 ft, from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Flow slightly regulated by mill and reservoirs above station; regulation greater prior to 1965.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	26	68	52	41	99	117	311	73	25	60	25
2	23	25	65	52	40	96	161	270	65	30	48	22
3	24	24	61	51	40	85	427	297	68	25	54	21
4	32	24	122	50	40	78	545	403	69	22	54	20
5	28	64	120	56	43	82	500	341	61	20	43	19
6	26	84	59	62	42	80	431	271	54	18	33	21
7	24	64	78	59	41	73	384	224	50	17	28	23
8	22	51	69	58	44	73	345	189	52	17	24	23
9	20	44	68	56	52	74	296	223	62	16	22	20
10	18	42	71	54	50	70	328	288	49	15	19	18
11	18	45	65	52	46	69	455	229	42	15	24	18
12	19	49	66	50	45	68	575	185	39	15	34	56
13	18	46	66	47	49	66	690	237	37	15	27	59
14	19	54	68	46	84	66	770	335	36	16	24	51
15	22	79	65	44	98	75	670	260	33	14	21	46
16	36	99	64	43	88	162	522	216	32	14	20	40
17	30	87	84	42	80	176	416	223	30	15	19	46
18	26	75	81	41	77	155	379	197	28	19	18	43
19	24	71	75	41	71	146	405	161	26	25	17	38
20	22	84	71	40	69	153	537	132	25	33	20	33
21	21	140	68	39	66	140	587	120	24	22	22	34
22	23	117	64	38	65	124	537	151	27	17	19	30
23	37	117	62	37	65	115	462	137	25	15	18	27
24	73	90	61	36	65	104	394	117	24	14	17	23
25	60	77	59	36	64	101	407	107	23	14	17	21
26	45	59	57	39	64	93	368	99	37	13	17	20
27	43	55	56	50	81	88	319	91	31	13	22	20
28	38	62	55	47	102	87	283	85	27	14	63	20
29	33	65	54	45	------	93	345	80	24	20	59	21
30	29	69	52	44	------	103	369	77	23	172	40	21
31	27	------	52	42	------	110	------	77	------	76	29	------
TOTAL	899	1,984	2,166	1,449	1,712	3,104	13,024	6,133	1,196	776	932	879
MEAN	29.0	66.1	69.9	46.7	61.1	100	434	198	39.9	25.0	30.1	29.3
MAX	73	140	122	62	102	176	770	403	73	172	63	59
MIN	18	24	52	36	40	66	117	77	23	13	17	18
CFSM	.43	.97	1.03	.69	.90	1.47	6.37	2.91	.59	.37	.44	.43
IN.	.49	1.08	1.18	.79	.94	1.70	7.11	3.35	.65	.42	.51	.48

CAL YR 1970 TOTAL 46,162 MEAN 126 MAX 1,050 MIN 15 CFSM 1.85 IN 25.22
WTR YR 1971 TOTAL 34,254 MEAN 93.8 MAX 770 MIN 13 CFSM 1.38 IN 18.71

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	2330	3.88	830				

01083000 Nubanusit Brook near Peterborough, N.H.

LOCATION.--Lat 42°53'10", long 71°58'24", Hillsborough County, on left bank 1.2 miles downstream from Edward MacDowell Reservoir, 1.3 miles northwest of Peterborough, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--46.9 sq mi.

PERIOD OF RECORD.--October 1920 to September 1931, July 1945 to current year. Monthly discharge only October 1920, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (from topographic map). Prior to Oct. 1, 1931, at site 550 ft downstream at different datum.

AVERAGE DISCHARGE.--37 years, 81.0 cfs (23.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 541 cfs Apr. 16 (gage height, 3.93 ft); minimum daily, 5.5 cfs June 8.
Period of record: Maximum discharge, 1,130 cfs Apr. 11, 1931 (gage height, 5.59 ft, site and datum then in use), from rating curve extended above 380 cfs; minimum daily, 0.5 cfs Aug. 1, 1926. Maximum discharge since construction of Edward MacDowell Reservoir in 1950, 699 cfs Apr. 12, 1960 (gage height, 4.54 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by mills and Nubanusit Lake, Edward MacDowell Reservoir since 1950 (see p. 65), and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 561: 1921(M). WSP 1051: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	25	40	31	23	83	98	217	35	20	102	27
2	36	23	38	31	22	83	108	199	37	23	77	21
3	34	22	36	31	21	78	174	185	42	20	58	18
4	37	22	57	31	20	72	264	197	46	17	51	16
5	27	31	68	34	27	66	301	204	56	15	45	15
6	33	34	68	39	22	62	303	199	37	14	37	14
7	29	33	59	38	22	59	315	181	15	14	31	14
8	27	30	50	35	40	57	303	154	5.5	12	25	13
9	26	18	46	33	31	54	214	146	5.8	12	21	12
10	24	10	46	31	13	51	190	165	31	12	18	11
11	23	13	42	29	16	49	238	176	48	11	21	11
12	23	14	41	28	17	46	284	163	50	11	23	21
13	23	28	41	27	45	44	298	161	23	11	20	21
14	23	58	41	26	75	43	157	186	16	12	18	24
15	31	49	39	26	95	46	396	192	13	9.4	15	25
16	52	41	37	25	55	83	446	180	12	13	12	24
17	47	38	41	25	20	110	513	168	13	13	10	24
18	37	35	44	25	20	125	474	157	13	14	9.8	22
19	33	34	44	24	19	130	432	125	12	18	9.8	18
20	28	37	43	24	50	123	404	136	11	25	9.4	17
21	25	52	40	23	120	112	399	106	25	24	9.4	17
22	25	51	38	23	130	100	421	145	73	21	9.0	16
23	32	60	37	22	59	80	415	119	49	20	9.0	15
24	42	61	36	22	54	97	380	65	33	20	8.6	14
25	39	53	35	21	62	72	328	89	26	21	8.3	13
26	37	46	34	21	46	82	273	74	35	22	8.3	13
27	34	40	33	21	52	80	253	64	32	23	9.4	15
28	33	38	33	27	67	68	192	59	26	22	27	15
29	31	37	32	26	------	74	185	53	22	34	44	15
30	28	39	32	25	------	85	214	48	21	123	43	14
31	26	------	31	24	------	93	------	46	------	123	34	------
TOTAL	957	1,072	1,302	848	1,283	2,407	8,972	4,359	863.3	749.4	823.0	515
MEAN	32.2	35.7	42.0	27.4	45.8	77.6	299	141	28.8	24.2	26.5	17.2
MAX	52	61	68	39	130	130	513	217	73	123	102	27
MIN	23	10	31	21	13	43	98	46	5.5	9.4	8.3	11
CFSM	.69	.76	.90	.58	.98	1.65	6.38	3.01	.61	.52	.57	.37
IN.	.79	.85	1.03	.67	1.02	1.91	7.12	3.46	.68	.59	.65	.41

CAL YR 1970 TOTAL 28,545.0 MEAN 78.2 MAX 375 MIN 10 CFSM 1.67 IN 22.64
WTR YR 1971 TOTAL 24,190.7 MEAN 66.3 MAX 513 MIN 5.5 CFSM 1.41 IN 19.19

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085000 Contoocook River near Henniker, N.H.

LOCATION.--Lat 43°09'10", long 71°51'24", Merrimack County, on right bank 1.6 miles downstream from Sand Brook and 2.5 miles southeast of Henniker.

DRAINAGE AREA.--368 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 475 ft (from topographic map). Prior to Dec. 18, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 612 cfs (22.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,760 cfs Apr. 14 (gage height, 9.98 ft); maximum gage height, 10.79 ft Jan. 7 (backwater from ice); minimum daily discharge, 41 cfs July 12.

Period of record: Maximum discharge, 9,460 cfs June 26, 1944 (gage height, 13.13 ft); minimum daily, 19 cfs Oct. 29, 1940, July 17, 1965.

Maximum stage since at least 1768, 21.3 ft Sept. 21, 1938, from floodmarks (discharge, 22,200 cfs, from rating curve extended above 7,500 cfs on basis of computations of flow over dams at gage heights 12.72 and 21.3 ft).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by Nubanusit Lake, Edward MacDowell Reservoir (see p. 65) since March 1950, Highland Lake, Lake Franklin Pierce (formerly Jackman Reservoir), and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1701: 1944(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	150	397	250	230	600	788	2,220	410	294	418	155
2	129	189	412	240	230	563	876	1,980	350	228	329	139
3	128	179	330	240	220	480	1,390	1,850	250	171	260	131
4	132	241	404	310	210	520	2,200	2,650	199	113	235	125
5	137	224	686	300	200	483	2,330	2,970	200	86	221	119
6	134	238	660	350	190	420	2,280	2,330	264	85	192	113
7	126	258	520	350	180	390	2,190	1,970	344	84	163	110
8	120	233	410	330	210	410	1,980	1,650	309	89	139	107
9	111	233	433	263	250	420	1,740	1,500	282	67	123	104
10	104	213	420	250	270	380	1,680	1,570	210	47	116	100
11	100	184	360	290	280	433	2,080	1,520	201	42	112	96
12	95	174	283	280	250	380	2,630	1,400	180	41	120	103
13	94	215	250	270	200	310	3,110	1,200	165	42	114	113
14	91	197	310	263	300	340	3,600	1,800	189	46	110	121
15	90	196	370	240	400	450	3,370	1,900	160	45	107	130
16	130	358	360	210	500	603	2,860	1,500	147	46	103	133
17	130	364	343	200	450	820	2,340	1,400	162	42	100	138
18	150	328	340	240	360	1,050	2,210	1,250	139	49	96	142
19	145	319	330	220	450	1,050	2,270	1,100	124	74	92	144
20	210	382	290	230	350	940	2,740	960	117	100	90	140
21	150	387	330	220	300	860	3,540	800	153	86	96	137
22	150	477	320	200	390	780	3,690	710	213	84	83	132
23	200	541	340	170	430	714	3,470	740	180	82	81	128
24	270	603	343	160	420	654	3,000	720	187	80	82	123
25	340	557	300	270	360	610	2,670	650	162	74	87	117
26	290	351	330	260	390	605	2,520	700	158	77	85	114
27	300	298	320	260	340	563	2,280	600	161	80	87	110
28	250	316	330	300	480	565	2,090	520	156	75	137	144
29	200	316	300	230	-------	583	2,100	480	229	76	187	117
30	178	342	313	180	-------	672	2,260	460	281	147	165	102
31	158	-------	290	170	-------	767	-------	440	-------	465	164	-------
TOTAL	4,947	9,063	11,409	7,743	8,840	18,373	72,284	41,540	6,282	3,117	4,484	3,687
MEAN	160	302	368	250	316	593	2,409	1,340	209	101	145	123
MAX	340	603	686	350	500	1,050	3,690	2,970	410	465	418	155
MIN	90	150	250	160	180	310	788	440	117	41	81	96
CFSM	.43	.82	1.00	.68	.86	1.61	6.55	3.64	.57	.27	.39	.33
IN.	.50	.92	1.15	.78	.89	1.86	7.31	4.20	.64	.32	.45	.37

CAL YR 1970 TOTAL 235,758 MEAN 646 MAX 4,450 MIN 51 CFSM 1.76 IN 23.83
WTR YR 1971 TOTAL 191,766 MEAN 525 MAX 3,690 MIN 41 CFSM 1.43 IN 19.39

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085500 Contoocook River below Hopkinton Dam, at West Hopkinton, N.H.

LOCATION.--Lat 43°11'31", long 71°44'51", Merrimack County, on right bank 400 ft downstream from covered bridge at West Hopkinton, 0.2 mile downstream from Hopkinton Dam, and 5.9 miles upstream from Warner River.

DRAINAGE AREA.--427 sq mi.

PERIOD OF RECORD.--August 1903 to April 1907 (no winter records), August 1963 to current year. Published as "at West Hopkinton" 1903-7.

GAGE.--Water-stage recorder. Altitude of gage is 355 ft (from topographic map). August 1903 to April 1907, nonrecording gage at site 400 ft upstream at different datum.

AVERAGE DISCHARGE.--8 years (1963-71), 604 cfs (19.21 inches per year), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 3890 cfs Apr. 15 (gage height, 7.08 ft); minimum daily, 20 cfs July 12.
Period of record: Maximum discharge, 5,260 cfs Apr. 24, 1969 (gage height, 8.66 ft); minimum daily, 15 cfs July 22, 1965.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by Nubanusit Lake, Edward MacDowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce (formerly Jackman Reservoir), Hopkinton Lake since 1962 (see p. 65), and other reservoirs above station. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River during periods of high flow in March 1968 and April 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	113	382	300	240	630	820	2,310	496	269	468	161
2	136	168	435	270	240	700	920	2,080	446	291	382	136
3	116	233	414	240	250	620	1,250	1,950	367	199	286	113
4	107	152	377	210	225	600	2,010	2,430	261	171	220	139
5	175	282	682	350	220	580	2,380	2,780	210	110	225	102
6	130	252	724	310	205	500	2,620	2,670	236	38	230	80
7	115	240	634	380	200	430	2,600	2,230	352	113	189	125
8	130	214	556	380	230	450	2,280	1,930	367	71	152	107
9	130	286	457	300	260	450	2,070	1,720	387	73	139	100
10	125	214	457	200	290	440	1,960	1,740	278	94	142	100
11	120	203	446	290	310	420	2,210	1,680	225	41	130	102
12	110	196	387	290	300	410	2,500	1,490	221	20	125	102
13	130	217	309	290	260	390	2,870	1,190	199	34	136	127
14	110	225	291	280	230	360	3,350	1,720	175	35	110	130
15	100	178	414	290	400	500	3,780	1,810	206	40	105	130
16	110	295	357	260	500	750	3,680	1,490	178	38	122	139
17	150	419	362	200	550	1,000	2,900	1,420	165	44	107	145
18	200	337	409	270	500	1,200	2,550	1,270	158	51	100	171
19	180	309	387	210	490	1,200	2,450	1,120	145	107	107	100
20	220	377	332	240	480	1,050	2,740	943	110	122	110	165
21	220	446	400	230	420	960	3,400	892	119	49	105	142
22	110	503	390	250	450	860	3,720	826	214	94	92	136
23	248	508	400	190	470	800	3,640	868	229	116	77	136
24	372	616	380	180	480	760	3,260	832	196	105	73	116
25	393	586	350	250	440	720	2,810	706	165	51	84	113
26	332	457	370	270	400	680	2,720	832	196	94	92	119
27	352	309	360	270	430	670	2,450	676	161	105	102	110
28	273	337	350	290	460	630	2,180	616	168	92	152	116
29	236	352	340	280	------	640	2,150	598	182	87	206	192
30	206	332	320	210	------	700	2,380	550	304	136	199	107
31	165	------	310	170	------	780	------	514	------	382	133	------
TOTAL	5,655	9,361	12,782	8,150	9,930	20,880	76,650	43,883	7,116	3,272	4,900	3,761
MEAN	182	312	412	263	355	674	2,555	1,416	237	106	158	125
MAX	393	616	724	380	550	1,200	3,780	2,780	496	382	468	192
MIN	100	113	291	170	200	360	820	514	110	20	73	80
MEAN†	182	315	416	264	359	675	2,554	1,411	235	104	155	123
CFSM†	.43	.74	.97	.62	.84	1.58	5.98	3.30	.55	.24	.36	.29
IN.†	.49	.82	1.12	.71	.88	1.82	6.68	3.81	.61	.28	.42	.32

CAL YR 1970 TOTAL 257,787 MEAN 706 MAX 3,900 MIN 38 MEAN† 705 CFSM† 1.65 IN† 22.42
WTR YR 1971 TOTAL 206,338 MEAN 565 MAX 3,780 MIN 20 MEAN† 565 CFSM† 1.32 IN† 17.97

† Adjusted for change in contents in Hopkinton Lake.
NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01085800 West Branch Warner River near Bradford, N. H.

LOCATION.--Lat 43°15'33", long 72°01'35", Merrimack County, on left bank 75 ft downstream from small right-bank tributary, 200 ft upstream from highway bridge, and 3.5 miles west of Bradford.

DRAINAGE AREA.--5.75 sq mi.

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 950 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 9.71 cfs (22.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 429 cfs May 4 (gage height, 7.97 ft), from rating curve extended above 130 cfs; minimum, 0.36 cfs July 29.

Period of record: Maximum discharge, 481 cfs Apr. 10, 1969 (gage height, 8.23 ft), from rating curve extended above 130 cfs; minimum, about 0.06 cfs about Sept. 20, 1964.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.3	6.0	2.9	1.6	8.4	9.0	41	4.2	.70	7.8	1.0
2	.81	2.1	5.6	2.9	1.5	7.3	15	40	3.5	.70	2.3	.82
3	1.3	2.0	5.1	2.8	1.5	6.5	60	86	3.9	.66	3.9	.70
4	3.8	2.0	17	2.8	1.5	6.2	46	194	3.5	.54	9.8	.66
5	1.9	2.1	12	3.0	1.5	5.8	34	64	3.1	.48	3.3	.58
6	1.2	2.3	8.0	4.5	1.5	5.5	29	41	2.5	.45	1.7	.54
7	.95	2.2	6.0	3.9	1.5	5.4	27	31	2.4	.45	1.1	.54
8	.77	2.0	5.0	3.5	1.5	5.3	20	26	2.8	.45	.91	.54
9	.69	1.7	4.9	3.2	2.5	5.4	18	35	6.4	.45	.74	.54
10	.65	1.7	4.8	3.0	3.6	5.2	30	33	3.3	.42	.66	.51
11	.61	2.3	4.5	2.8	3.4	5.1	63	24	2.4	.42	.74	.48
12	.61	3.5	4.3	2.7	3.1	4.9	82	21	2.1	.42	1.3	.86
13	.61	3.5	4.1	2.5	4.0	4.9	97	35	1.9	.39	1.0	1.6
14	.65	3.1	4.0	2.4	20	4.9	93	37	1.7	.39	.82	3.5
15	.90	3.2	3.8	2.3	12	7.5	55	23	1.5	.39	.62	4.9
16	2.3	5.4	3.7	2.2	8.0	27	38	19	1.5	.39	.51	2.7
17	1.9	5.6	3.8	2.1	6.5	16	32	17	1.2	.39	.51	2.1
18	1.4	4.2	3.8	2.0	5.7	13	35	15	1.1	.42	.51	2.1
19	1.2	6.9	3.7	1.9	5.6	11	85	13	1.0	.78	.48	1.8
20	1.1	16	3.6	1.8	5.2	11	121	12	.91	1.9	.45	1.3
21	.81	34	3.5	1.7	5.1	9.5	95	11	.86	.96	.45	1.4
22	1.4	14	3.4	1.7	4.8	8.6	80	12	.86	.66	.42	1.5
23	13	16	3.3	1.6	4.6	8.2	56	10	.86	.58	.51	1.1
24	11	12	3.3	1.6	4.6	8.4	53	9.0	.86	.51	.48	.96
25	5.7	7.8	3.3	1.5	4.8	8.8	63	8.0	.91	.45	.48	.82
26	4.3	5.7	3.3	1.6	4.3	8.2	50	8.0	2.4	.42	.48	.78
27	4.3	5.7	3.2	1.9	7.5	8.0	47	7.4	1.4	.42	.51	.70
28	3.8	5.6	3.1	1.8	11	7.7	45	6.8	1.0	.42	17	.66
29	3.1	5.2	3.0	1.7	------	7.4	80	6.0	.78	.70	7.6	.66
30	2.5	5.6	2.9	1.7	------	8.2	50	5.0	.78	3.2	2.8	.66
31	2.3	------	2.9	1.6	------	8.3	------	4.9	------	5.2	1.5	------
TOTAL	76.76	185.7	148.9	73.6	138.4	257.6	1,608.0	895.1	61.62	24.71	71.38	37.01
MEAN	2.48	6.19	4.80	2.37	4.94	8.31	53.6	28.9	2.05	.80	2.30	1.23
MAX	13	34	17	4.5	20	27	121	194	6.4	5.2	17	4.9
MIN	.61	1.7	2.9	1.5	1.5	4.9	9.0	4.9	.78	.39	.42	.48
CFSM	.43	1.08	.83	.41	.86	1.45	9.32	5.03	.36	.14	.40	.21
IN.	.50	1.20	.96	.48	.90	1.67	10.40	5.79	.40	.16	.46	.24

CAL YR 1970 TOTAL 3,438.09 MEAN 9.42 MAX 165 MIN .25 CFSM 1.64 IN 22.24
WTR YR 1971 TOTAL 3,578.78 MEAN 9.80 MAX 194 MIN .39 CFSM 1.70 IN 23.15

PEAK DISCHARGE (BASE, 85 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	2015	6.32	152				
4-20	1800	6.73	206				
4-29	1430	5.73	93				
5-4	0845	7.97	429				

01086000 Warner River at Davisville, N.H.

LOCATION.--Lat 43°15'06", long 71°43'54", Merrimack County, on left bank 60 ft downstream from bridge on State Highway 127 at Davisville, 2.2 miles northwest of Contoocook, and 2.4 miles upstream from mouth.

DRAINAGE AREA.--146 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (from topographic map). Prior to Dec. 22, 1939, chain gage at bridge 60 ft upstream at same datum.

AVERAGE DISCHARGE.--32 years, 229 cfs (21.30 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,620 cfs Apr. 14 (gage height, 7.19 ft); minimum, 7.4 cfs Aug. 27.
Period of record: Maximum discharge, 4,510 cfs Mar. 27, 1953 (gage height, 9.88 ft); minimum, 2.6 cfs Aug. 17, 18, 1965.
Flood of September 1938 reached a stage of 12.8 ft, from information by local residents.

REMARKS.--Records good. Prior to 1948, slight diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	55	103	75	70	240	276	859	134	23	32	33
2	25	49	97	76	69	255	314	753	113	23	39	25
3	24	46	93	76	68	250	522	731	110	21	36	20
4	29	44	134	75	68	228	823	1,300	108	20	70	18
5	32	47	192	77	68	207	835	1,540	96	19	72	17
6	30	50	176	88	72	198	799	1,260	83	20	51	14
7	28	51	140	91	72	189	775	988	76	20	39	13
8	26	47	115	86	72	181	705	775	69	19	32	13
9	23	44	110	79	77	170	611	680	75	16	31	13
10	22	43	115	76	85	160	620	680	72	15	26	12
11	21	45	108	75	83	155	889	607	63	13	23	11
12	21	51	104	76	80	150	1,220	526	56	13	22	14
13	24	52	97	73	82	143	1,410	490	52	12	20	20
14	25	51	97	70	112	148	1,580	630	48	13	19	23
15	25	56	88	72	160	155	1,520	589	45	12	17	35
16	33	69	82	70	167	231	1,300	502	40	11	16	39
17	37	69	82	69	170	366	1,060	478	37	10	13	39
18	34	65	89	69	165	363	949	450	35	11	12	36
19	35	65	93	68	163	342	943	401	33	12	11	32
20	33	86	93	68	157	317	1,240	352	30	17	11	28
21	30	167	86	68	155	324	1,450	314	28	17	10	27
22	31	181	75	67	150	301	1,460	321	28	14	9.8	25
23	44	173	79	67	145	285	1,360	304	26	13	9.2	23
24	115	173	79	67	145	275	1,180	261	25	12	8.9	21
25	115	152	82	64	140	260	1,050	231	23	10	8.6	20
26	89	123	86	65	134	250	968	213	31	10	8.3	18
27	77	110	83	73	145	240	865	195	30	10	8.6	17
28	76	103	81	76	210	220	770	189	28	9.5	17	16
29	75	101	79	73	------	231	787	173	26	10	64	15
30	65	101	77	72	------	255	937	160	24	22	65	14
31	58	------	76	72	------	264	------	150	------	27	44	------
TOTAL	1,330	2,469	3,091	2,273	3,284	7,353	29,218	17,102	1,644	474.5	845.4	651
MEAN	42.9	82.3	99.7	73.3	117	237	974	552	54.8	15.3	27.3	21.7
MAX	115	181	192	91	210	366	1,580	1,540	134	27	72	39
MIN	21	43	75	64	68	143	276	150	23	9.5	8.3	11
CFSM	.29	.56	.68	.50	.80	1.62	6.67	3.78	.38	.10	.19	.15
IN.	.34	.63	.79	.58	.84	1.87	7.44	4.36	.42	.12	.22	.17

CAL YR 1970	TOTAL 83,404.7	MEAN 229	MAX 2,030	MIN 5.7	CFSM 1.57	IN 21.25
WTR YR 1971	TOTAL 69,734.9	MEAN 191	MAX 1,580	MIN 8.3	CFSM 1.31	IN 17.77

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0830	7.19	1,620				
4-22	0430	7.03	1,490				
5-5	0430	7.17	1,600				

01087000 Blackwater River near Webster, N.H.

LOCATION.--Lat 43°17'45", long 71°41'46", Merrimack County, on left bank 0.2 mile west of Dingit Corner, 2.4 miles downstream from Blackwater Dam, 2.5 miles southeast of Webster, and 6.5 miles upstream from mouth.

DRAINAGE AREA.--129 sq mi.

PERIOD OF RECORD.--May 1918 to September 1920, February 1927 to current year. Published as "near Contoocook" 1918-20, 1927-35. Records published for both sites October 1934 to September 1935.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (from topographic map). Prior to Oct. 1, 1935, chain gage at site 5 miles downstream at different datum.

AVERAGE DISCHARGE.--46 years, 207 cfs (21.79 inches per year), adjusted to present site.

EXTREMES.--Current year: Maximum discharge, 1,540 cfs May 6 (gage height, 6.24 ft); minimum, 20 cfs July 16-19, Aug. 27.

Period of record: Maximum discharge, 11,000 cfs Mar. 19, 1936 (gage height, 11.78 ft, from floodmarks), from rating curve extended above 6,700 cfs on basis of slope-area and critical-depth measurements of peak flow; minimum, 3 cfs Sept. 17, 1941; minimum daily, 7.6 cfs Sept. 29, 1964. Maximum discharge since construction of Blackwater Reservoir in 1941, 2,390 cfs Apr. 16, 1951, Apr. 10, 1952 (gage height, 7.18 ft).

Maximum stage since at least 1733, that of Mar. 19, 1936.

REMARKS.--Records good except those for period of no gage-height record, which are fair. High flow regulated by Blackwater Reservoir since 1941 (see p. 65). Some regulation at low flow prior to 1953 by mill above station.

REVISIONS (WATER YEARS).--WSP 696: Drainage area. WSP 821: 1936(M). WSP 851: 1936. WSP 867: 1936 (flood-report data). WSP 1231: 1919-20, 1927, 1928(M), 1929-32, 1933-34(M), 1936 (calendar-year summaries).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	67	114	75	71	170	239	775	130	34	62	57
2	44	64	119	75	70	197	255	665	125	33	65	46
3	42	59	114	75	68	191	352	617	120	31	59	39
4	47	57	130	76	66	179	533	906	115	30	80	34
5	51	59	191	76	66	168	710	1,410	110	28	93	31
6	57	59	170	78	66	162	755	1,450	96	27	77	31
7	56	58	145	82	68	156	695	928	86	26	62	30
8	50	56	105	88	70	148	590	655	80	27	50	31
9	43	53	110	86	74	146	501	547	78	27	42	30
10	37	51	115	78	78	143	466	522	82	27	38	29
11	32	53	105	76	76	143	566	505	84	26	36	28
12	30	58	100	74	74	144	755	432	78	24	36	33
13	32	63	98	72	78	144	1,080	387	70	23	35	42
14	31	64	93	72	86	144	1,250	445	64	22	33	52
15	30	66	86	70	105	156	1,260	519	58	21	32	70
16	37	75	82	72	150	193	1,080	466	54	21	30	76
17	48	75	86	70	160	258	840	387	50	21	29	76
18	83	64	92	70	160	305	690	346	46	21	27	74
19	77	106	94	68	155	322	660	311	43	23	26	66
20	64	97	92	68	150	308	796	275	40	30	25	57
21	54	148	83	68	145	291	1,120	251	38	32	28	53
22	50	230	76	66	140	270	1,290	258	36	33	25	49
23	59	243	78	66	135	246	1,220	258	34	33	24	45
24	131	212	80	66	130	225	1,030	241	33	30	23	41
25	205	189	84	66	125	210	851	216	32	29	22	38
26	185	155	86	68	125	199	780	197	32	28	21	34
27	143	130	84	70	125	191	730	179	35	27	21	32
28	114	115	80	73	135	187	650	169	39	26	30	29
29	94	111	78	76	------	193	622	160	37	27	45	27
30	81	111	76	75	------	208	700	150	36	42	64	26
31	74	------	76	73	------	227	------	140	------	45	70	------
TOTAL	2,128	2,948	3,122	2,268	2,951	6,224	23,066	14,767	1,961	874	1,310	1,306
MEAN	68.6	98.3	101	73.2	105	201	769	476	65.4	28.2	42.3	43.5
MAX	205	243	191	88	160	322	1,290	1,450	130	45	93	76
MIN	30	51	76	66	66	143	239	140	32	21	21	26
CFSM	.53	.76	.78	.57	.81	1.56	5.96	3.69	.51	.22	.33	.34
IN.	.61	.85	.90	.65	.85	1.79	6.65	4.26	.57	.25	.38	.38

CAL YR 1970 TOTAL 74,168 MEAN 203 MAX 1,510 MIN 14 CFSM 1.57 IN 21.39
WTR YR 1971 TOTAL 62,925 MEAN 172 MAX 1,450 MIN 21 CFSM 1.33 IN 18.15

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation. No gage-height record May 29 to July 15.

01088000 Contoocook River at Penacook, N. H.

LOCATION.--Lat 43°17'12", long 71°35'56", Merrimack County, on right bank at Penacook, 0.5 mile upstream from mouth.

DRAINAGE AREA.--766 sq mi.

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 273.09 ft above mean sea level.

AVERAGE DISCHARGE.--43 years, 1,231 cfs (21.82 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 7,380 cfs Apr. 15 (gage height, 5.56 ft), minimum; 86 cfs July 13; minimum daily, 93 cfs July 13.
Period of record: Maximum discharge, 46,800 cfs Mar. 20, 1936 (gage height, 14.26 ft, from floodmarks); minimum, 18 cfs Sept. 7, 1968; minimum daily, 57 cfs Oct. 12, 1964, Aug. 16, 1965. Maximum discharge since construction of Hopkinton and Everett Dams in 1962, 10,300 cfs Apr. 25, 1969 (gage height, 6.29 ft).
Stage and discharge of flood of Mar. 20, 1936, are the greatest since at least 1725.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Nubanusit Lake, Edward MacDowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce (formerly Jackman Reservoir), Hopkinton Lake since 1962, Blackwater Reservoir since 1941 (see p. 65), and other reservoirs above station. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River at times during periods of high flow in March 1968 and April 1969.

REVISIONS (WATER YEARS).--WSP 756: 1933(M), drainage area. WSP 1231: 1929, 1931. WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	307	630	520	410	1,150	1,550	4,480	858	381	599	324
2	259	285	700	470	450	1,250	1,710	4,070	788	388	572	308
3	219	354	690	410	430	1,160	1,950	3,740	722	313	489	255
4	253	301	700	380	410	1,070	2,550	4,830	610	259	444	235
5	238	409	1,050	370	400	995	4,380	6,050	510	234	465	255
6	264	395	1,230	360	390	940	4,780	6,020	486	163	430	189
7	229	395	1,090	600	360	858	4,850	5,030	573	149	359	214
8	243	381	940	640	400	810	4,380	4,020	610	196	308	222
9	200	388	880	620	450	810	3,860	3,440	640	135	270	205
10	205	367	810	380	490	780	3,630	3,330	528	163	255	193
11	184	360	740	440	520	777	4,230	3,250	446	145	240	193
12	167	331	722	480	520	766	5,080	2,910	402	95	235	210
13	205	360	610	510	480	770	5,880	2,390	388	93	230	222
14	175	367	573	500	480	680	6,780	3,040	331	111	230	265
15	167	360	780	480	650	777	7,290	3,310	354	117	201	275
16	196	416	700	450	800	1,200	7,080	2,980	331	119	205	308
17	219	610	650	350	900	1,700	5,940	2,630	307	119	205	335
18	313	519	680	450	940	2,050	4,980	2,380	290	135	178	341
19	307	502	660	430	920	2,150	4,730	2,100	280	145	185	347
20	307	620	580	440	900	1,950	5,180	1,830	248	243	193	302
21	307	777	700	420	860	1,850	6,270	1,650	224	159	174	313
22	290	918	700	430	820	1,650	6,990	1,640	307	167	185	280
23	307	995	660	350	860	1,500	6,960	1,620	325	192	146	265
24	610	1,070	680	340	820	1,400	6,300	1,530	313	188	163	250
25	744	1,350	600	430	780	1,250	5,470	1,340	280	167	146	222
26	690	882	640	460	722	1,200	5,080	1,360	296	139	156	222
27	660	640	640	480	755	1,200	4,700	1,220	301	196	185	226
28	528	620	600	490	858	1,150	4,190	1,100	269	175	280	210
29	470	640	590	460	------	1,220	3,990	1,060	285	171	365	265
30	409	610	560	370	------	1,330	4,430	969	360	260	383	245
31	354	------	560	320	------	1,440	------	906	------	383	365	------
TOTAL	9,958	16,229	22,335	13,830	17,775	37,833	145,190	86,225	12,662	5,900	8,841	7,696
MEAN	321	541	720	446	635	1,220	4,840	2,781	422	190	285	257
MAX	744	1,070	1,230	640	940	2,150	7,290	6,050	858	388	599	347
MIN	167	285	560	320	360	680	1,550	906	224	93	146	189
CFSM	.42	.71	.94	.58	.83	1.59	6.32	3.63	.55	.25	.37	.34
IN.	.48	.79	1.08	.67	.86	1.84	7.05	4.19	.61	.29	.43	.37

CAL YR 1970 TOTAL 471,509 MEAN 1,292 MAX 6,900 MIN 79 CFSM 1.69 IN 22.90
WTR YR 1971 TOTAL 384,454 MEAN 1,053 MAX 7,290 MIN 93 CFSM 1.37 IN 18.67

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01089000 Soucook River near Concord, N.H.

LOCATION.--Lat 43°14'22", long 71°27'44", Merrimack County, on left bank 500 ft upstream from U.S. Highway 4, 0.9 mile upstream from Cemetery Brook, and 4.4 miles northeast of State Capital at Concord.

DRAINAGE AREA.--76.8 sq mi.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 290 ft (from topographic map).

AVERAGE DISCHARGE.--20 years, 106 cfs (18.74 inches per year).

EXTREMES.--Current year: Maximum discharge, 860 cfs Apr. 14 (gage height, 9.20 ft); minimum not determined; minimum daily, 6.0 cfs Aug. 25, 26.

Period of record: Maximum discharge, 2,880 cfs Apr. 6, 1960 (gage height, 13.34 ft); minimum, 1.5 cfs Aug. 7, 1965.

REMARKS.--Records good except those for winter period and periods of indefinite stage-discharge relation, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1331: 1952(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	56	98	56	51	200	210	226	78	16	39	10
2	10	52	90	56	50	180	252	196	70	17	32	9.6
3	12	51	85	56	48	170	524	254	75	16	34	8.8
4	45	54	166	56	48	155	680	635	89	14	39	8.6
5	42	66	246	58	50	150	611	476	77	13	35	8.8
6	31	90	160	62	52	144	530	333	65	12	28	9.0
7	26	77	140	60	52	137	488	262	59	12	23	9.2
8	23	67	110	57	54	133	415	222	54	11	20	9.0
9	21	60	100	54	56	126	343	224	52	10	18	9.0
10	19	55	90	52	62	119	410	228	47	10	15	8.6
11	19	60	85	52	62	115	788	192	42	9.5	14	8.6
12	20	90	80	52	61	114	809	167	39	9.0	19	14
13	20	83	77	52	60	109	812	190	36	8.5	18	23
14	30	73	74	50	80	112	833	350	32	9.0	14	27
15	40	74	70	50	110	123	713	252	28	8.5	12	32
16	81	98	62	50	120	177	521	204	26	8.0	11	29
17	71	90	64	48	120	283	415	232	26	7.5	10	28
18	55	80	66	46	120	266	393	200	24	9.0	9.2	25
19	48	75	70	44	120	226	413	166	23	11	8.5	23
20	57	87	70	44	115	196	482	147	20	16	8.0	20
21	58	131	62	44	115	198	479	134	21	15	7.5	18
22	50	135	56	44	110	181	433	172	24	13	7.0	16
23	66	128	58	44	110	170	378	176	21	12	6.6	14
24	248	127	60	43	105	159	319	143	20	11	6.2	13
25	177	104	62	44	105	150	283	127	19	10	6.0	12
26	127	90	63	48	100	143	264	119	23	9.2	6.0	11
27	102	83	64	55	105	138	264	110	24	8.8	8.0	10
28	85	82	65	57	130	140	234	102	19	11	12	9.8
29	73	88	62	54	------	153	250	94	17	11	23	9.2
30	65	94	60	52	------	186	266	86	16	80	16	8.5
31	58	------	57	52	------	194	------	83	------	55	12	------
TOTAL	1,789	2,500	2,672	1,592	2,371	5,047	13,811	6,502	1,166	463.0	517.0	441.7
MEAN	57.7	83.3	86.2	51.4	84.7	163	460	210	38.9	14.9	16.7	14.7
MAX	248	135	246	62	130	283	833	635	89	80	39	32
MIN	10	51	56	43	48	109	210	83	16	7.5	6.0	8.5
CFSM	.75	1.08	1.12	.67	1.10	2.12	5.99	2.73	.51	.19	.22	.19
IN.	.87	1.21	1.29	.77	1.15	2.44	6.69	3.15	.56	.22	.25	.21

CAL YR 1970 TOTAL 42,347.2 MEAN 116 MAX 1,310 MIN 4.8 CFSM 1.51 IN 20.51
WTR YR 1971 TOTAL 38,871.7 MEAN 106 MAX 833 MIN 6.0 CFSM 1.38 IN 18.83

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-4	1100	8.74	722				
4-14	1000	9.20	860				
5-4	1530	8.70	710				

NOTE.--Stage-discharge relation indefinite Oct. 1-5, July 1-30, Aug. 15 to Sept. 2, Sept. 5-8, 18-30.

01090800 Piscataquog River below Everett Dam, near East Weare, N.H.

LOCATION.--Lat 43°05'29", long 71°39'36", Hillsborough County, on right bank 500 ft downstream from Everett Dam and 1.4 miles southeast of East Weare.

DRAINAGE AREA.--63.1 sq mi.

PERIOD OF RECORD.--March 1963 to current year.

AVERAGE DISCHARGE.--8 years, 82.0 cfs (17.65 inches per year), adjusted for storage and diversion.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 320 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 875 cfs Apr. 15 (gage height, 7.65 ft); minimum daily, 4.9 cfs July 14-17.
Period of record: Maximum discharge, 1,530 cfs May 1, 1969 (gage height, 8.73 ft); no flow for part of Aug. 27, Nov. 18, 1964, Oct. 22, 1968, caused by unusual regulation; minimum daily discharge, 0.39 cfs Sept. 6, 1968.

REMARKS.--Records good. Flow regulated by Everett Lake (see p. 65). Diversion from Hopkinton Lake on Contoocook River to Everett Lake during periods of high flow in the spring of 1968 and 1969. Occasional regulation by small reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	60	44	40	41	83	143	288	63	10	44	25
2	12	47	44	40	41	108	170	252	58	12	33	18
3	12	39	44	40	28	114	222	255	54	10	28	15
4	13	33	62	40	18	114	285	426	58	8.0	26	13
5	14	50	91	40	37	114	362	466	55	8.0	24	12
6	14	59	84	46	47	114	414	482	50	7.0	20	10
7	13	50	62	39	50	100	414	482	45	7.7	17	9.4
8	13	41	27	33	33	91	406	482	44	7.4	14	8.5
9	13	36	14	33	42	73	387	474	60	7.4	12	8.5
10	13	32	46	33	38	58	362	474	55	7.4	9.8	8.1
11	13	32	40	46	32	82	376	454	44	6.7	14	7.1
12	13	32	28	53	41	81	398	185	38	6.3	17	9.4
13	13	32	28	35	45	73	390	168	35	5.5	16	14
14	13	32	46	38	45	73	398	219	29	4.9	13	17
15	73	32	40	33	45	73	651	175	26	4.9	11	20
16	50	38	29	26	78	110	825	143	24	4.9	8.9	20
17	30	39	44	26	91	170	651	148	23	4.9	7.7	20
18	29	39	55	39	91	185	348	129	20	5.5	7.1	19
19	38	38	55	34	91	185	345	114	18	7.1	6.3	17
20	41	40	55	36	91	185	406	62	17	14	8.5	14
21	40	58	45	39	91	185	434	58	16	14	9.8	14
22	52	63	39	37	91	158	434	71	19	13	8.9	13
23	120	63	39	37	59	131	398	93	20	11	7.4	12
24	148	63	39	37	67	120	341	110	19	9.8	6.7	11
25	118	59	39	32	58	110	313	104	17	8.9	6.3	9.8
26	97	53	39	28	62	104	310	95	15	8.1	5.9	8.5
27	118	48	39	28	78	98	285	82	18	7.7	5.5	7.7
28	89	45	39	28	79	98	255	71	15	7.7	18	7.4
29	68	44	59	37	------	100	264	70	10	8.1	54	7.0
30	104	44	51	41	------	119	313	65	7.0	39	50	6.8
31	84	------	40	41	------	129	------	63	------	50	35	------
TOTAL	1,480	1,340	1,406	1,135	1,610	3,543	11,300	6,763	972.0	326.9	544.8	382.2
MEAN	47.7	44.7	45.4	36.6	57.5	114	377	218	32.4	10.5	17.6	12.7
MAX	148	63	91	53	91	185	825	482	63	50	54	25
MIN	12	32	14	26	18	58	143	58	7.0	4.9	5.5	6.8
MEAN†	49.6	43.6	48.5	36.8	58.2	112	379	217	29.6	11.4	17.2	12.1
CFSM†	.79	.69	.77	.58	.92	1.77	6.01	3.44	.47	.18	.27	.19
IN.†	.91	.77	.89	.67	.96	2.04	6.70	3.96	.52	.21	.31	.21

CAL YR 1970 TOTAL 35,343.1 MEAN 96.8 MAX 705 MIN 2.2 MEAN† 94.6 CFSM† 1.50 IN† 20.36
WTR YR 1971 TOTAL 30,799.9 MEAN 84.4 MAX 825 MIN 4.9 MEAN† 84.4 CFSM† 1.34 IN† 18.16

† Adjusted for change in contents in Everett Lake.

01091000 South Branch Piscataquog River near Goffstown, N.H.

LOCATION.--Lat 43°00'49", long 71°38'31", Hillsborough County, on right bank 20 ft upstream from highway bridge, 1.4 miles upstream from mouth, and 2.2 miles west of Goffstown.

DRAINAGE AREA.--104 sq mi.

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 310 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 161 cfs (21.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,280 cfs Apr. 14 (gage height, 6.50 ft); minimum, 7.2 cfs July 16, Aug. 27.
Period of record: Maximum discharge, 4,100 cfs June 25, 1944 (gage height, 9.47 ft); maximum gage height, 14.33 ft Feb. 11, 1970 (ice jam); minimum discharge, 2.4 cfs Aug. 20-22, 1966.

REMARKS.--Records good except those for winter period, which are fair. Prior to 1954, some regulation at low flow by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	39	93	78	66	200	340	427	100	29	113	29
2	14	36	84	80	66	190	400	342	86	29	73	23
3	31	34	81	82	64	180	710	427	82	28	55	19
4	38	32	143	88	64	170	800	852	89	24	48	16
5	31	55	193	94	64	160	750	605	89	21	44	15
6	23	81	150	110	64	150	650	431	79	20	37	14
7	17	63	130	96	66	145	530	326	69	18	32	13
8	16	54	120	84	68	135	430	272	64	16	28	12
9	13	47	105	75	70	130	380	300	82	15	24	12
10	12	43	110	72	72	125	480	427	75	14	20	11
11	12	48	105	70	76	125	810	338	60	13	19	11
12	11	60	100	70	80	120	1,040	268	52	12	25	25
13	12	59	95	68	95	120	1,090	314	49	11	24	44
14	11	52	90	68	120	130	1,210	530	43	11	24	42
15	12	58	85	68	170	145	1,010	359	39	11	20	42
16	29	93	80	66	165	200	753	286	46	11	17	36
17	39	81	76	66	160	360	600	338	54	11	15	33
18	33	70	88	64	160	380	566	303	47	15	14	30
19	36	70	90	64	155	320	615	251	37	18	12	22
20	33	89	86	66	150	290	786	216	32	30	12	20
21	35	165	82	66	145	260	810	193	31	28	13	18
22	32	150	75	64	140	240	720	231	59	23	12	17
23	63	136	70	64	140	210	615	219	63	20	12	17
24	190	134	75	64	140	190	503	180	49	16	11	16
25	130	109	78	62	135	180	494	160	41	15	9.9	15
26	96	102	80	62	135	170	476	150	51	14	9.5	14
27	78	84	80	68	150	165	413	141	50	13	11	14
28	64	82	76	72	180	160	355	130	41	11	36	13
29	54	84	74	72	------	180	449	117	36	12	72	13
30	50	91	72	70	------	210	548	107	32	225	55	13
31	44	------	75	68	------	240	------	106	------	163	38	------
TOTAL	1,273	2,301	2,941	2,261	3,160	5,980	19,333	9,346	1,727	897	935.4	619
MEAN	41.1	76.7	94.9	72.9	113	193	644	301	57.6	28.9	30.2	20.6
MAX	190	165	193	110	180	380	1,210	852	100	225	113	44
MIN	11	32	70	62	64	120	340	106	31	11	9.5	11
CFSM	.40	.74	.91	.70	1.09	1.86	6.19	2.89	.55	.28	.29	.20
IN.	.46	.82	1.05	.81	1.13	2.14	6.92	3.34	.62	.32	.33	.22

CAL YR 1970 TOTAL 60,796.3 MEAN 167 MAX 2,000 MIN 9.0 CFSM 1.61 IN 21.75
WTR YR 1971 TOTAL 50,773.4 MEAN 139 MAX 1,210 MIN 9.5 CFSM 1.34 IN 18.16

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0530	6.50	1,280				

01091500 Piscataquog River near Goffstown, N.H.

LOCATION.--Lat 43°00'58", long 71°33'03", Hillsborough County, on left bank 300 ft upstream from highway bridge, 0.2 mile upstream from Harry Brook, 0.4 mile southwest of Grasmere, 0.9 mile downstream from Glen Lake, and 2.5 miles east of Goffstown.

DRAINAGE AREA.--202 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 185 ft (from topographic map). Prior to Dec. 22, 1939, staff gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 297 cfs (19.97 inches per year), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 2,040 cfs Apr. 14 (gage height, 7.02 ft); minimum daily, 6.5 cfs Oct. 6.
Period of record: Maximum discharge, 6,840 cfs Apr. 5, 1960 (gage height, 10.85 ft); minimum daily, 2.2 cfs Sept. 7, 1962.
Maximum discharge since at least 1733, 21,900 cfs Sept. 21, 1938 (gage height, 17.52 ft, from floodmarks), by computation of flow over dam. Flood of Mar. 19, 1936, reached a discharge of 19,900 cfs by computation of flow over dam.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Everett Lake 10 miles upstream since 1962 (see p. 65) and occasionally by Glen Lake since 1966. Prior to October 1966, flow regulated by powerplant at outlet of Glen Lake. Diversion from Hopkinton Lake on Contoocook River to Everett Lake during periods of high flow in the spring of 1968 and 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	117	161	140	105	350	556	844	206	63	200	63
2	26	97	151	140	105	360	703	714	163	57	135	49
3	31	83	144	140	105	360	1,320	796	256	52	97	41
4	68	74	231	140	100	340	1,560	1,480	163	48	90	33
5	145	111	338	145	100	330	1,440	1,240	21	45	82	29
6	6.5	158	289	155	105	320	1,340	969	117	42	70	27
7	9.2	133	185	155	110	310	1,260	742	138	38	59	27
8	36	109	150	150	110	275	1,160	627	135	33	54	26
9	36	93	115	145	115	245	1,040	627	158	32	47	23
10	35	87	125	140	120	230	1,120	772	161	29	40	20
11	35	95	150	135	125	235	1,580	681	129	27	40	20
12	34	107	133	130	150	245	1,780	561	111	26	37	33
13	34	106	129	125	180	225	1,830	627	104	24	37	63
14	34	97	133	120	225	230	1,940	948	90	24	38	66
15	45	106	125	120	300	260	1,760	703	80	24	39	69
16	85	146	120	120	305	435	1,770	566	80	23	37	63
17	120	142	127	115	305	649	1,500	643	88	25	35	63
18	100	123	156	115	300	681	1,170	537	80	37	33	58
19	90	123	166	110	295	675	1,120	499	67	37	31	45
20	85	146	166	110	290	586	1,340	400	61	45	28	42
21	85	251	150	105	285	537	1,400	338	63	51	24	35
22	82	254	140	105	280	484	1,310	421	95	44	23	32
23	195	240	145	100	270	453	1,180	430	102	37	22	32
24	400	231	150	100	265	421	997	387	85	32	20	36
25	303	195	155	100	260	391	948	354	73	40	19	24
26	225	166	155	105	260	366	927	326	85	56	19	24
27	215	153	155	105	280	354	826	296	83	15	19	24
28	184	146	155	110	330	354	736	268	70	15	21	24
29	142	146	150	110	------	383	814	244	61	16	74	24
30	149	156	145	105	------	462	1,000	222	62	138	117	24
31	149	------	140	105	------	517	------	215	------	264	87	------
TOTAL	3,210.7	4,191	4,934	3,800	5,780	12,063	37,427	18,477	3,187	1,439	1,674	1,139
MEAN	104	140	159	123	206	389	1,248	596	106	46.4	54.0	38.0
MAX	400	254	338	155	330	681	1,940	1,480	256	264	200	69
MIN	6.5	74	115	100	100	225	556	215	21	15	19	20
MEAN†	105	139	162	123	207	387	1,250	595	103	47.2	53.6	37.3
CFSM†	.52	.69	.80	.61	1.02	1.92	6.19	2.95	.51	.23	.27	.18
IN.†	.60	.77	.93	.70	1.07	2.21	6.90	3.40	.57	.27	.31	.21

CAL YR 1970 TOTAL 116,318.7 MEAN 319 MAX 3,400 MIN 6.5 MEAN† 316 CFSM† 1.57 IN† 21.27
WTR YR 1971 TOTAL 97,321.7 MEAN 267 MAX 1,940 MIN 6.5 MEAN† 267 CFSM† 1.32 IN† 17.92

† Adjusted for change in contents in Everett Lake.
NOTE.--No gage-height record Jan. 10 to Feb. 12.

01092000 Merrimack River near Goffs Falls, below Manchester, N.H.

LOCATION.--Lat 42°56'54", long 71°27'52", Hillsborough County, on right bank 600 ft upstream from bridge on Interstate Highway 193, 0.8 mile downstream from Bowman Brook, 1.3 miles north of Goffs Falls, and 2.3 miles downstream from Piscataquog River.

DRAINAGE AREA.--3,092 sq mi.

PERIOD OF RECORD.--October 1936 to current year. October 1936 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.27 ft above mean sea level.

AVERAGE DISCHARGE.--35 years, 5,113 cfs (22.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,800 cfs May 5 (gage height, 9.99 ft); minimum daily, 483 cfs Aug. 25.
Period of record: Maximum discharge, 102,500 cfs Sept. 23, 1938 (gage height, 25.87 ft), from rating curve extended above 48,000 cfs on basis of computations of flow over dam at gage heights 25.87 and 35.19 ft; minimum daily, 98 cfs Oct. 11, 1964.
Maximum discharge since at least 1722, 150,000 cfs Mar. 20, 1936 (gage height, 35.19 ft, from floodmarks), from rating curve extended above 48,000 cfs by method explained above.

REMARKS.--Records excellent. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. See page 65 for description and monthend contents of many of these reservoirs. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1937. WSP 1271: 1937(M, m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,850	2,230	3,400	2,800	2,430	5,220	6,550	15,100	4,560	1,190	2,000	1,360
2	2,410	2,160	3,090	2,740	2,360	5,600	7,260	14,100	4,450	1,920	2,440	1,840
3	1,470	2,290	3,180	2,600	2,450	5,400	9,950	13,700	3,470	1,120	2,510	1,450
4	965	2,420	3,870	2,660	2,300	4,890	13,500	19,500	3,640	1,180	2,840	789
5	3,130	2,230	5,790	2,800	2,300	4,550	15,500	25,800	3,360	1,650	2,600	811
6	2,080	2,620	5,700	3,280	2,400	4,560	15,200	25,100	3,120	1,370	2,390	996
7	2,740	2,030	4,830	3,280	2,310	4,280	15,100	20,800	2,580	925	2,200	1,150
8	2,480	1,300	3,390	3,050	2,460	3,950	14,700	17,300	2,560	675	1,670	1,390
9	2,960	2,650	3,110	3,050	2,430	4,020	12,600	15,200	2,930	690	1,830	1,460
10	1,980	2,030	3,000	2,740	2,850	4,160	11,900	14,700	2,760	875	1,580	684
11	1,360	1,650	3,130	2,660	2,660	4,160	14,500	14,400	2,940	820	2,190	744
12	840	2,350	3,340	2,840	2,900	4,110	17,000	13,500	1,960	690	1,730	1,090
13	1,250	2,540	3,540	2,800	2,880	3,920	19,900	14,100	2,120	580	1,590	1,650
14	1,500	2,070	3,450	2,680	3,270	3,880	22,900	15,900	1,980	870	976	2,140
15	1,840	2,040	3,700	2,540	4,300	3,930	23,600	15,400	1,940	1,320	944	2,410
16	2,160	2,620	3,510	2,660	4,370	5,250	21,900	13,300	1,920	770	1,120	3,020
17	2,680	2,400	3,400	2,640	4,440	6,940	18,200	11,300	1,550	770	1,470	1,450
18	1,340	2,740	2,910	2,450	4,920	8,190	15,300	10,300	1,440	1,480	1,080	2,170
19	1,810	2,390	3,570	2,490	4,820	8,210	14,300	10,600	1,100	1,060	753	2,070
20	1,520	2,950	3,270	2,500	4,460	7,670	15,900	10,500	1,420	630	1,270	1,740
21	1,920	3,600	3,200	2,360	3,810	7,230	19,600	9,970	1,370	1,520	1,050	1,930
22	2,280	5,430	2,750	2,320	3,690	6,650	22,300	10,300	1,600	1,480	900	1,790
23	2,830	6,150	3,070	2,410	3,600	6,110	21,500	9,720	1,490	1,380	1,130	1,400
24	4,120	5,040	3,150	2,320	3,460	5,970	19,200	9,210	1,510	585	928	1,290
25	5,060	5,440	2,500	2,220	3,300	5,840	16,700	7,950	1,480	761	483	1,390
26	5,120	4,730	2,920	2,320	3,470	5,320	15,700	6,230	1,810	1,070	914	1,290
27	3,790	3,530	2,860	2,560	3,300	5,350	15,300	6,970	1,760	1,520	1,640	2,030
28	3,490	3,130	2,950	2,800	3,950	5,220	14,000	6,860	2,070	1,340	1,960	1,390
29	2,150	2,950	3,120	2,880	------	5,190	13,200	5,910	1,320	1,130	2,050	971
30	2,590	3,240	3,030	2,860	------	6,040	14,800	5,390	1,690	2,610	2,360	1,700
31	2,370	------	2,860	2,680	------	6,240	------	5,180	------	2,670	2,020	------
TOTAL	74,085	88,950	105,550	82,990	92,000	169,050	477,960	394,190	67,610	36,651	50,618	45,455
MEAN	2,390	2,965	3,406	2,677	3,286	5,421	15,930	12,720	2,254	1,182	1,633	1,517
MAX	5,120	6,150	5,790	3,280	4,920	8,210	23,600	25,800	4,560	2,670	2,840	3,020
MIN	840	1,300	2,500	2,220	2,300	3,880	6,550	5,180	1,100	580	483	684
CFSM	.77	.96	1.10	.87	1.06	1.75	5.15	4.11	.73	.38	.53	.49
IN.	.89	1.07	1.27	1.00	1.11	2.02	5.75	4.74	.81	.44	.61	.55

CAL YR 1970 TOTAL 1,917,944 MEAN 5,254 MAX 26,700 MIN 423 CFSM 1.70 IN 23.07
WTR YR 1971 TOTAL 1,684,189 MEAN 4,614 MAX 25,800 MIN 483 CFSM 1.49 IN 20.26

PEAK DISCHARGE (BASE, 22,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	1115	9.40	24,000				
4-22	1500	9.21	23,000				
5-05	2030	9.99	26,800				

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01093800 Stony Brook tributary near Temple, N.H.

LOCATION.--Lat 42°51'36", long 71°50'00", Hillsborough County, on left bank 150 ft downstream from highway bridge, 2.9 miles north of Temple, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--3.60 sq mi.

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 6.06 cfs (22.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 85 cfs Apr. 13 (gage height, 5.55 ft); maximum gage height, 6.08 ft Feb. 14 (backwater from ice); minimum discharge, 0.12 cfs Aug. 25, 26.

Period of record: Maximum discharge, 220 cfs Apr. 23, 1969 (gage height, 6.53 ft), from rating curve extended above 90 cfs; minimum, 0.02 cfs Aug. 21, 1966.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	1.8	4.6	2.8	1.9	7.0	11	21	4.0	.79	2.2	.39
2	.59	1.6	4.0	2.9	1.8	6.0	32	18	3.5	1.3	1.4	.33
3	.73	1.5	3.8	3.2	1.7	5.6	47	29	3.8	.76	1.1	.31
4	1.7	1.3	13	3.5	1.7	5.5	33	29	4.1	.58	.89	.30
5	1.1	6.2	8.6	3.8	1.7	6.4	26	16	3.4	.49	.77	.26
6	.83	4.8	6.5	4.5	1.7	5.2	22	13	3.1	.44	.55	.25
7	.73	3.4	5.6	3.8	1.7	5.2	19	10	2.7	.38	.44	.30
8	.73	2.8	4.6	3.4	1.7	5.0	14	8.9	2.8	.27	.36	.31
9	.68	2.6	4.2	3.0	2.2	4.6	17	15	3.8	.25	.29	.30
10	.63	2.1	4.0	2.8	3.0	4.4	35	15	2.7	.23	.23	.25
11	.73	2.8	3.9	2.6	2.6	4.2	37	10	2.3	.22	.95	.24
12	.78	3.2	3.8	2.4	2.4	4.2	48	8.6	2.0	.21	1.1	2.6
13	.78	3.1	3.7	2.2	4.0	4.2	61	17	1.8	.19	.49	1.8
14	.78	2.7	3.7	2.1	20	4.2	35	17	1.7	.20	.31	2.9
15	.83	4.6	3.5	2.0	7.0	7.0	29	11	1.5	.22	.31	2.5
16	1.6	6.5	3.3	1.9	5.0	25	22	10	1.4	.18	.29	1.4
17	1.5	4.6	3.1	1.8	4.8	16	18	13	1.3	.16	.24	1.6
18	1.2	3.7	3.2	1.7	4.4	12	18	9.6	1.1	.35	.21	1.4
19	1.2	4.2	3.5	1.6	4.1	9.6	28	8.0	.92	.70	.19	1.0
20	1.1	8.3	3.4	1.6	4.0	8.9	42	7.4	.81	.84	.16	.83
21	.89	19	3.2	1.5	3.9	7.1	39	6.8	.77	.40	.16	.83
22	1.1	8.3	3.0	1.5	3.8	6.8	32	9.2	.99	.30	.16	.74
23	10	9.2	2.9	1.5	3.7	6.2	24	7.1	.89	.27	.15	.59
24	8.3	6.8	3.0	1.5	3.4	6.0	21	6.5	.85	.22	.15	.51
25	4.0	5.4	3.1	1.5	2.6	5.8	27	5.8	.77	.20	.15	.42
26	3.4	4.6	3.2	2.0	2.9	5.6	18	5.4	2.1	.21	.13	.41
27	3.4	4.4	3.2	3.0	3.5	5.4	16	5.2	1.1	.23	.38	.38
28	2.6	4.2	3.1	2.5	8.0	5.3	16	5.0	.84	.20	4.1	.39
29	2.3	4.4	3.0	2.3	------	6.5	32	4.6	.70	.63	1.8	.39
30	2.0	4.6	2.9	2.1	------	8.3	26	4.4	.62	9.5	.81	.39
31	1.8	------	2.8	2.0	------	8.9	------	4.4	------	3.2	.50	------
TOTAL	58.60	142.7	127.4	75.0	109.2	222.1	845	350.9	58.36	24.12	20.97	24.32
MEAN	1.89	4.76	4.11	2.42	3.90	7.16	28.2	11.3	1.95	.78	.68	.81
MAX	10	19	13	4.5	20	25	61	29	4.1	9.5	4.1	2.9
MIN	.59	1.3	2.8	1.5	1.7	4.2	11	4.4	.62	.16	.13	.24
CFSM	.53	1.32	1.14	.67	1.08	1.99	7.83	3.14	.54	.22	.19	.23
IN.	.61	1.47	1.32	.78	1.13	2.30	8.73	3.63	.60	.25	.22	.25

CAL YR 1970 TOTAL 2,307.02 MEAN 6.32 MAX 110 MIN .16 CFSM 1.76 IN 23.84
WTR YR 1971 TOTAL 2,058.67 MEAN 5.64 MAX 61 MIN .13 CFSM 1.57 IN 21.27

PEAK DISCHARGE (BASE, 110 CFS).--No peak above base.

01094000 Souhegan River at Merrimack, N.H.

LOCATION.--Lat 42°51'27", long 71°30'24", Hillsborough County, on left bank at head of Wildcat Falls at Merrimack, 0.4 mile upstream from bridge on Everett Turnpike, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--171 sq mi.

PERIOD OF RECORD.--July 1909 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.58 ft above mean sea level (levels by Corps of Engineers). Prior to Apr. 12, 1911, nonrecording gage at site 300 ft downstream at datum 0.38 ft lower. Apr. 12, 1911, to Oct. 14, 1913, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--62 years, 280 cfs (22.24 inches per year).

EXTREMES.--Current year. Maximum discharge, 1,830 cfs Apr. 14 (gage height, 5.94 ft); minimum, 15 cfs Aug. 27.
Period of record: Maximum discharge, 16,900 cfs Mar. 19, 1936 (gage height, 16.2 ft), from rating curve extended above 7,300 cfs on basis of velocity-area studies and computation of flow over dam at gage height 12.78 ft; minimum, 3.8 cfs Aug. 17, Sept. 8, Oct. 1, 1965.
Stage and discharge of the flood of Mar. 19, 1936, are the greatest since 1830.

REMARKS.--Records good except those for winter period, which are fair. Slight diurnal fluctuation at times caused by mill above station. Diversion to Pennichuck Brook basin for municipal supply of Nashua during periods of low flow from August 1965 to October 1966, and July 1969 to September 1971. High flow slightly affected by retarding reservoirs since 1963. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 431: 1909-14. WSP 726: Drainage area. WSP 781: 1924(M). WSP 1231: 1914-15(M), 1917(M), 1919-23(M), 1927-28(M), 1929, 1930-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	61	162	110	84	433	613	746	202	57	100	39
2	22	52	156	110	84	421	713	628	178	58	90	29
3	22	52	141	110	82	397	1,360	618	162	74	74	36
4	25	49	170	110	82	357	1,690	1,030	170	66	70	26
5	27	64	341	110	80	341	1,480	900	164	57	64	22
6	30	136	287	115	82	321	1,270	713	154	50	63	20
7	28	124	240	120	84	306	1,200	598	141	46	43	19
8	26	100	154	120	86	294	1,090	514	126	45	33	18
9	24	90	159	115	89	272	930	537	134	37	34	17
10	24	81	173	110	93	254	960	659	144	33	32	17
11	24	96	159	105	96	254	1,390	584	126	30	31	17
12	22	120	154	100	94	240	1,630	505	108	28	45	21
13	22	113	144	98	130	227	1,620	487	92	26	64	51
14	22	102	150	95	180	231	1,760	856	94	23	55	64
15	22	98	130	92	230	251	1,620	657	88	22	39	72
16	26	144	110	90	350	425	1,310	564	79	22	27	70
17	32	151	105	88	300	829	1,100	608	74	21	30	72
18	36	131	125	86	270	812	1,010	551	69	24	25	72
19	35	126	150	85	250	686	984	464	64	28	21	64
20	30	144	155	84	230	569	1,100	405	57	39	20	60
21	29	244	145	82	220	560	1,120	365	60	54	19	57
22	27	291	120	80	210	487	1,030	397	81	43	18	52
23	42	247	115	78	210	464	924	421	98	33	17	49
24	190	247	115	76	200	425	823	361	90	24	17	39
25	181	211	120	76	200	393	812	317	74	25	16	39
26	134	170	125	80	195	381	790	291	77	23	16	38
27	104	154	120	85	195	373	708	272	86	23	16	37
28	94	146	120	90	250	369	633	254	79	24	22	37
29	77	144	115	88	------	409	702	227	72	23	51	36
30	74	154	110	86	------	490	884	208	63	26	54	35
31	64	------	110	84	------	560	------	202	------	84	47	------
TOTAL	1,538	4,042	4,680	2,958	4,656	12,831	33,256	15,979	3,206	1,168	1,253	1,225
MEAN	49.6	135	151	95.4	166	414	1,109	515	107	37.7	40.4	40.8
MAX	190	291	341	120	350	829	1,760	1,030	202	84	100	72
MIN	22	49	105	76	80	227	613	202	57	21	16	17
MEAN†	53.0	135	151	95.4	166	414	1,109	515	107	37.7	44.4	42.2
CFSM†	.31	.79	.88	.56	.97	2.42	6.49	3.01	.63	.22	.26	.25
IN.†	.36	.88	1.02	.64	1.01	2.79	7.23	3.48	.70	.25	.30	.28

CAL YR 1970 TOTAL 100,559 MEAN 276 MAX 2,690 MIN 16 MEAN† 277 CFSM† 1.62 IN† 21.98
WTR YR 1971 TOTAL 86,792 MEAN 238 MAX 1,760 MIN 16 MEAN† 239 CFSM† 1.40 IN† 18.94

PEAK DISCHARGE (BASE, 2,250 CFS).--No peak above base.

† Adjusted for diversion to Pennichuck Brook basin for municipal supply of Nashua. Records of diversion furnished by Pennichuck Water Works.

01094500 North Nashua River near Leominster, Mass.

LOCATION.--Lat 42°30'06", long 71°43'23", Worcester County, on right bank 1.3 miles upstream from Wekepeke Brook, 2.5 miles southeast of Leominster, and 6.1 miles upstream from confluence with South Branch Nashua River.

DRAINAGE AREA.--107 sq mi.

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 270.04 ft above mean sea level.

AVERAGE DISCHARGE.--36 years, 188 cfs (23.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,140 cfs Apr. 3 (gage height, 4.24 ft); minimum, 36 cfs June 21; minimum daily, 42 cfs Sept. 6.

Period of record: Maximum discharge, 16,300 cfs Mar. 18, 1936 (gage height, 20.53 ft, from floodmarks), by computation of flow over dam; minimum, 11 cfs Aug. 29, 1948; minimum daily, 22 cfs Sept. 27, 1936, Sept. 2, 1957.

Maximum discharge since at least 1850, that of Mar. 18, 1936.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Regulation at low flow by mills above station. Discharge includes flow diverted from 2.1 sq mi in Squannacook River basin to North Nashua River basin for municipal supply of Fitchburg.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	65	110	63	80	301	399	400	127	124	109	61
2	59	68	103	70	75	279	466	330	120	188	90	59
3	69	73	91	73	72	254	1,020	380	119	121	84	61
4	87	66	177	72	72	266	907	560	127	86	107	56
5	53	119	145	100	79	248	742	470	109	73	86	46
6	62	99	114	120	87	213	619	370	93	64	68	42
7	65	80	103	100	85	201	620	320	90	71	57	49
8	70	73	85	90	98	206	541	290	104	57	47	57
9	73	74	86	82	130	182	463	350	121	53	49	57
10	61	72	92	78	126	171	527	450	95	49	59	56
11	47	120	82	76	107	173	788	380	86	43	109	50
12	46	93	80	74	104	172	803	310	77	46	97	233
13	69	78	77	70	110	163	802	350	75	47	70	99
14	71	114	88	68	200	174	839	500	73	56	64	114
15	73	116	80	67	245	215	700	400	73	53	49	84
16	119	123	76	66	213	620	580	340	77	51	44	73
17	59	95	87	64	174	662	520	370	73	50	54	82
18	52	85	91	62	173	458	480	301	70	75	57	64
19	52	90	91	64	169	379	470	262	61	79	75	51
20	77	112	96	64	178	361	520	239	51	93	95	54
21	77	196	92	64	174	317	500	223	102	68	61	70
22	79	143	85	64	158	281	450	247	186	59	50	62
23	197	158	89	66	182	280	400	223	114	54	56	61
24	153	130	88	64	177	265	360	197	93	50	57	59
25	96	105	88	64	159	247	380	183	86	47	56	54
26	89	84	81	50	163	246	410	172	221	51	57	46
27	91	82	76	110	229	252	390	161	121	151	97	51
28	87	80	82	100	298	264	310	155	93	97	159	59
29	83	80	83	94	———	311	420	130	82	75	79	59
30	81	99	79	90	———	370	500	118	77	111	59	56
31	75	———	75	85	———	402	———	122	———	136	66	———
TOTAL	2,432	2,972	2,873	2,414	4,117	8,533	16,886	9,303	3,000	2,378	2,267	2,025
MEAN	78.5	99.1	92.7	77.9	147	288	563	300	100	76.7	73.1	67.5
MAX	197	196	177	120	298	662	1,020	560	221	188	159	233
MIN	46	65	75	62	72	163	310	118	51	43	44	42
CFSM	.73	.93	.87	.73	1.37	2.69	5.26	2.80	.93	.72	.68	.63
IN.	.85	1.03	1.00	.84	1.43	3.11	5.87	3.23	1.04	.83	.79	.70

CAL YR 1970 TOTAL 69,413 MEAN 190 MAX 2,520 MIN 41 CFSM 1.78 IN 24.13
WTR YR 1971 TOTAL 59,600 MEAN 163 MAX 1,020 MIN 42 CFSM 1.52 IN 20.72

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-3	2230	4.24	1,140				

NOTE.--No gage-height record Jan. 4 to Feb. 5, Apr. 15 to May 17.

01095500 South Branch Nashua River at Clinton, Mass.

LOCATION.--Lat 42°24'12", long 71°41'19", Worcester County, at Wachusett Dam, 1 mile south of Clinton.

DRAINAGE AREA.--107.69 sq mi since July 1937.

PERIOD OF RECORD.--July 1896 to current year.

AVERAGE DISCHARGE.--75 years, 186 cfs (23.45 inches per year), adjusted to present drainage area.

REMARKS.--Flow regulated by Wachusett Reservoir and several ponds. Records adjusted for change in contents in and wastage from Wachusett Reservoir and diversions from Ware River and Quabbin Reservoir on Swift River. Entire flow, except wastage, diverted for use of Boston metropolitan district.

COOPERATION.--Records furnished by Water Division of Metropolitan District Commission.

REVISIONS (WATER YEARS).--WSP 1051: 1928.

MONTHLY DISCHARGE AND RAINFALL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

Month	Runoff (millions of gallons)	Discharge per square mile		Runoff (inches)	Rainfall (inches)
		Millions of gallons per day	Cubic feet per second		
October	424.8	0.127	0.20	0.23	3.01
November	817.9	.253	.39	.44	4.23
December	822.1	.246	.38	.44	4.67
Calendar year 1970	41,453.4	1.055	1.63	22.16	44.03
January	1,006.6	.302	.47	.54	2.96
February	2,134.0	.708	1.10	1.14	4.78
March	7,130.5	2.136	3.30	3.81	2.68
April	9,523.6	2.948	4.56	5.09	2.16
May	6,837.7	2.048	3.17	3.65	4.79
June	2,122.6	.657	1.02	1.13	2.49
July	726.0	.217	.34	.39	4.35
August	600.2	.180	.28	.32	3.89
September	712.9	.221	.34	.38	3.58
Water year 1971	32,860.3	.836	1.29	17.56	43.59

01096000 Squannacook River near West Groton, Mass.

LOCATION.--Lat 42°38'03", long 71°39'30", Middlesex County, on left bank 0.7 mile downstream from Trout Brook and 2.7 miles northwest of West Groton.

DRAINAGE AREA.--62.8 sq mi, excludes 2.10 sq mi above outlet of Fitchburg Reservoir.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 244.27 ft above mean sea level.

AVERAGE DISCHARGE.--22 years, 105 cfs (22.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 755 cfs Apr. 4 (gage height, 4.99 ft); minimum daily, 4.1 cfs Sept. 10.
Period of record: Maximum discharge, 4,010 cfs Oct. 16, 1955 (gage height, 8.04 ft), from rating curve extended above 2,200 cfs; minimum daily, 2.0 cfs Sept. 7, 1965.

REMARKS.--Records excellent. Occasional regulation at low flow by mill above station; regulation greater prior to 1961. During most years, entire flow from 2.10 sq mi above outlet of Fitchburg Reservoir diverted for municipal supply of Fitchburg; some wastage at times during water years 1964, 1967-71.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	20	45	35	42	160	257	241	78	33	23	13
2	13	19	41	35	38	161	293	194	68	70	20	12
3	13	19	39	36	35	144	591	194	64	64	19	12
4	19	19	50	36	34	126	688	339	68	39	19	11
5	18	29	100	41	37	130	551	300	64	31	19	9.4
6	15	45	81	53	39	126	457	220	55	26	16	8.7
7	15	41	61	55	39	114	436	185	48	22	14	9.4
8	14	33	46	50	39	111	394	165	47	21	12	12
9	14	27	42	43	47	100	314	189	70	19	12	11
10	13	25	42	39	59	93	351	266	66	19	11	4.1
11	16	31	41	39	58	90	584	222	49	18	13	4.7
12	17	41	42	39	51	87	688	180	41	17	21	18
13	15	38	41	35	56	82	611	180	38	17	17	27
14	14	39	41	34	76	83	638	327	36	16	15	24
15	15	43	37	34	99	94	547	261	35	16	13	25
16	22	50	35	34	120	184	408	200	33	16	12	23
17	20	49	38	32	121	319	324	212	32	16	11	20
18	18	40	37	31	105	281	283	198	28	18	10	21
19	15	37	41	32	93	224	274	163	26	19	10	19
20	16	44	43	32	89	191	298	140	25	28	11	17
21	16	78	43	32	87	184	293	132	28	24	11	16
22	15	84	39	32	83	160	266	146	109	19	10	15
23	27	66	39	33	83	151	231	148	83	16	9.7	14
24	68	64	40	32	85	146	205	124	53	14	9.7	13
25	58	54	39	32	79	135	218	111	40	14	11	12
26	37	44	40	36	79	132	239	100	58	14	10	11
27	33	40	38	45	90	132	202	90	62	16	11	12
28	26	39	38	56	132	140	178	87	41	14	14	12
29	23	41	37	57	------	168	209	85	32	13	20	12
30	22	43	35	48	------	218	300	79	29	16	17	12
31	20	------	34	47	------	247	------	79	------	21	14	------
TOTAL	657	1,238	1,364	1,215	1,995	4,713	11,328	5,557	1,506	706	435.4	430.3
MEAN	21.2	41.3	44.0	39.2	71.3	152	378	179	50.2	22.8	14.0	14.3
MAX	68	84	100	57	132	319	688	339	109	70	23	27
MIN	13	19	34	31	34	82	178	79	25	13	9.7	4.1
CFSM	.34	.66	.70	.62	1.14	2.42	6.02	2.85	.80	.36	.22	.23
IN.	.39	.73	.81	.72	1.18	2.79	6.71	3.29	.89	.42	.26	.25

CAL YR 1970 TOTAL 38,409.7 MEAN 105 MAX 1,280 MIN 9.7 CFSM 1.67 IN 22.75
WTR YR 1971 TOTAL 31,144.7 MEAN 85.3 MAX 688 MIN 4.1 CFSM 1.36 IN 18.45

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-4	0500	4.99	755				
4-12	0800	4.93	725				

01096500 Nashua River at East Pepperell, Mass.

LOCATION.--Lat 42°40'03", long 71°34'32", Middlesex County, on right bank 200 ft downstream from powerplant of Pepperell (formerly St. Regis) Paper Co. at East Pepperell and 0.8 mile upstream from Nissitissit River.

DRAINAGE AREA.--Total above gage, 433 sq mi; net above gage, 316 sq mi (flow diverted from 117 sq mi for use of Boston metropolitan district and city of Worcester).

PERIOD OF RECORD.--October 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 169.04 ft above mean sea level.

AVERAGE DISCHARGE.--36 years, 515 cfs (22.13 inches per year), adjusted for wastage to Nashua River.

EXTREMES.--Current year: Maximum discharge, 2,970 cfs Apr. 5 (gage height, 5.99 ft); minimum daily, 6.6 cfs Oct. 17.
Period of record: Maximum discharge, 20,900 cfs Mar. 20, 1936 (gage height, 19.1 ft, from floodmarks), from rating curve extended above 12,000 cfs on basis of velocity-area studies; minimum daily, 1.1 cfs Aug. 13, 1939.

REMARKS.--Records good. Extremes and daily discharge include water wasted in diverting drainage from basin of South Branch Nashua River for use of Boston metropolitan district and water diverted around station through plant of Pepperell Paper Co. Flow regulated by powerplant above station.

REVISIONS.--WSP 801: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	17	495	7.2	413	1,000	1,370	690	642	190	16	152
2	6.9	310	220	28	223	940	1,420	675	527	350	211	152
3	7.2	363	313	193	223	884	1,600	933	359	109	214	152
4	7.2	242	463	540	223	854	2,380	1,110	358	85	212	192
5	273	267	193	610	172	570	2,550	1,280	398	181	248	9.4
6	261	350	236	211	12	610	2,130	1,080	150	177	252	9.8
7	180	8.2	655	217	12	580	1,700	890	403	158	245	146
8	205	155	518	487	299	854	1,640	513	342	156	17	146
9	6.9	363	217	177	402	767	1,790	640	182	144	221	150
10	6.9	382	475	8.6	220	650	1,260	1,270	370	131	215	143
11	6.9	374	211	422	386	690	1,520	1,200	378	119	162	144
12	242	371	7.5	217	406	270	2,260	959	365	324	169	12
13	239	104	134	220	14	437	2,260	872	11	211	162	378
14	183	6.9	585	251	345	487	2,170	1,400	177	208	161	450
15	146	180	513	475	778	800	2,080	1,130	202	211	12	196
16	222	442	228	183	665	1,050	1,780	908	279	170	166	192
17	6.6	455	258	11	665	1,780	1,170	1,230	188	171	158	193
18	7.5	220	254	239	655	1,810	1,020	1,100	203	18	156	193
19	283	320	425	223	555	1,250	1,170	940	199	162	127	9.4
20	303	462	7.2	223	73	1,110	1,090	812	12	186	130	189
21	202	183	220	193	431	1,030	1,100	749	171	187	138	189
22	214	214	438	460	718	1,200	1,040	442	460	187	15	169
23	11	665	491	230	645	1,090	685	584	374	186	161	141
24	463	670	7.8	10	640	1,040	670	809	390	180	155	140
25	415	635	37	227	555	972	655	610	189	15	152	140
26	418	93	239	230	536	927	979	598	388	152	153	8.6
27	382	7.2	251	230	138	660	830	583	42	193	153	143
28	363	86	615	258	518	762	707	566	509	187	234	144
29	242	251	414	475	------	1,150	756	142	290	187	12	115
30	259	605	434	175	------	1,220	896	144	203	246	152	114
31	115	------	112	10	------	1,330	------	338	------	245	152	------
TOTAL	5,807.1	8,801.3	9,666.5	7,440.8	10,922	28,774	42,678	25,197	8,761	5,426	4,731	4,512.2
MEAN	187	293	312	240	390	928	1,423	813	292	175	153	150
MAX	463	670	655	610	778	1,810	2,550	1,400	642	350	252	450
MIN	6.6	6.9	7.2	7.2	12	270	655	142	11	15	12	8.6
MEAN†	180	286	304	232	382	920	1,415	805	284	167	145	143
CFSM†	.57	.91	.96	.73	1.21	2.91	4.48	2.55	.90	.53	.46	.45
IN.†	.66	1.01	1.11	.85	1.26	3.36	5.00	2.94	1.00	.61	.53	.50

CAL YR 1970 TOTAL 199,827.9 MEAN 547 MAX 4,380 MIN 6.6 MEAN† 540 CFSM† 1.71 IN† 23.19
WTR YR 1971 TOTAL 162,716.9 MEAN 446 MAX 2,550 MIN 6.6 MEAN† 438 CFSM† 1.39 IN† 18.82

† Adjusted for water wasted in diverting drainage from basin of South Branch Nashua River for use of Boston metropolitan district (figures represent discharge from net drainage area). Records of wastage furnished by Water Division of Metropolitan District Commission.

01097000 Assabet River at Maynard, Mass.

LOCATION.--Lat 42°25'55", long 71°27'01", Middlesex County, on right bank at Maynard, 150 ft upstream from bridge on State Highway 27, 1.7 miles downstream from Assabet Brook, and 7.1 miles upstream from confluence with Sudbury River.

DRAINAGE AREA.--116 sq mi.

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 142.12 ft above mean sea level.

AVERAGE DISCHARGE.--30 years, 176 cfs (20.60 inches per year).

EXTREMES.--Current year: Maximum discharge, 899 cfs Mar. 17 (gage height, 4.51 ft); minimum daily, 6.9 cfs July 29.
Period of record: Maximum discharge, 4,250 cfs Aug. 20, 1955 (gage height, 8.94 ft); maximum gage height, 8.96 ft Aug. 20, 1955 (backwater from debris); minimum daily discharge, 0.20 cfs Feb. 7, 1965.
Maximum discharge since at least 1886, that of Aug. 20, 1955.

REMARKS.--Records fair. Occasional diurnal fluctuation at low flow by mills above station; greater regulation prior to 1969. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1945-46.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	41	131	97	125	448	427	265	176	32	46	27
2	16	43	131	97	110	545	406	249	169	34	45	22
3	26	61	122	95	97	574	424	249	165	34	34	19
4	33	69	130	98	89	505	478	273	174	32	44	17
5	32	93	169	122	99	493	463	279	165	27	41	16
6	28	106	179	142	108	485	420	252	137	24	28	17
7	24	102	160	162	114	445	413	239	122	22	22	18
8	24	89	137	153	125	441	427	222	116	21	21	17
9	24	88	124	135	146	424	445	224	129	22	19	18
10	17	83	122	126	153	403	445	281	126	20	18	18
11	18	86	120	122	156	377	427	332	110	18	18	18
12	20	89	118	122	160	349	406	326	93	17	30	43
13	20	89	114	120	179	337	393	317	84	15	30	68
14	23	104	110	110	234	329	377	403	77	21	28	91
15	25	124	97	106	257	349	346	459	72	20	24	93
16	28	144	86	105	289	521	314	420	67	18	20	78
17	27	140	108	93	300	790	306	417	62	24	17	57
18	27	122	120	89	289	833	298	424	64	52	16	46
19	25	112	122	89	276	730	287	377	46	47	27	41
20	25	112	131	84	289	682	281	329	49	44	19	42
21	24	142	137	81	303	646	276	284	49	37	25	39
22	23	149	133	83	306	592	260	270	52	31	23	34
23	53	153	124	84	323	549	249	257	50	24	30	33
24	158	144	120	86	335	525	244	242	49	20	11	39
25	174	133	118	88	346	485	239	224	50	18	12	34
26	142	120	122	106	340	452	234	209	54	23	13	35
27	95	112	116	130	346	427	229	192	51	22	24	33
28	69	114	110	130	387	420	222	181	44	12	45	31
29	56	120	106	133	------	417	234	174	39	6.9	43	28
30	64	126	100	140	------	427	260	165	35	27	32	33
31	41	------	97	135	------	434	------	162	------	42	28	------
TOTAL	1,389	3,210	3,814	3,463	6,280	15,434	10,230	8,697	2,676	806.9	833	1,105
MEAN	44.8	107	123	112	224	498	341	281	89.2	26.0	26.9	36.8
MAX	174	153	179	162	387	833	478	459	176	52	46	93
MIN	16	41	86	81	89	329	222	162	35	6.9	11	16
CFSM	.39	.92	1.06	.97	1.93	4.29	2.94	2.42	.77	.22	.23	.32
IN.	.45	1.03	1.22	1.11	2.01	4.95	3.28	2.79	.86	.26	.27	.35

CAL YR 1970 TOTAL 75,722.8 MEAN 207 MAX 1,640 MIN 7.8 CFSM 1.78 IN 24.28
WTR YR 1971 TOTAL 57,937.9 MEAN 159 MAX 833 MIN 6.9 CFSM 1.37 IN 18.58

01097300 Nashoba Brook near Acton, Mass.

LOCATION.--Lat 42°30'39", long 71°24'25", Middlesex County, on right bank 1,500 ft downstream from dam at North Acton, 2.2 miles northeast of Acton, and 5 miles above mouth.

DRAINAGE AREA.--12.7 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1962-63. July 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 15.2 cfs (16.25 inches per year).

EXTREMES.--Current year: Maximum discharge, about 95 cfs about Mar. 18; minimum, 0.09 cfs July 28.
Period of record: Maximum discharge, 360 cfs Mar. 19, 1968 (gage height, 5.07 ft); minimum, 0.02 cfs Sept. 6, 1968.

REMARKS.-- Records good except those for winter period, which are fair. Occasional regulation since 1967 by small pond above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	3.4	8.8	8.8	9.5	36	47	36	20	3.6	2.0	.65
2	1.3	3.1	9.0	8.6	8.4	45	44	30	19	3.0	2.6	.89
3	1.3	4.5	8.2	8.2	7.6	50	47	27	18	3.1	2.0	.71
4	2.9	.80	18	8.2	7.0	45	52	39	20	3.4	5.8	.75
5	.85	5.8	21	9.5	7.5	42	51	42	20	3.1	17	.80
6	1.3	12	20	11	8.2	40	47	34	16	2.6	9.2	.76
7	1.6	14	14	12	9.0	38	45	28	11	2.3	5.0	.73
8	1.6	11	9.9	14	10	36	50	25	9.0	2.1	3.3	.71
9	1.9	7.0	8.2	13	11	34	66	24	13	1.8	2.3	.71
10	1.7	5.3	7.6	12	12	33	68	51	12	1.7	1.8	.71
11	1.4	3.2	7.6	10	13	31	65	62	9.8	1.2	1.5	1.0
12	11	6.2	7.4	9.0	13	29	49	45	8.6	1.1	1.8	1.1
13	1.6	8.0	7.4	8.8	14	27	48	45	7.9	.93	1.8	4.4
14	.21	8.0	7.2	8.0	18	27	46	79	7.3	1.0	1.5	6.1
15	.61	24	7.2	7.4	21	29	42	72	7.0	1.1	1.2	5.1
16	1.3	16	6.8	7.2	28	40	39	55	6.4	.90	.99	5.6
17	1.3	16	7.6	7.2	27	80	37	60	5.9	.95	.83	4.2
18	1.2	13	7.6	7.2	25	90	35	49	5.6	1.0	.69	3.4
19	1.1	4.7	8.0	7.0	22	80	36	46	5.1	1.0	.60	2.9
20	1.1	7.4	9.5	6.8	23	75	36	38	4.7	1.2	.76	2.6
21	1.2	13	11	6.6	24	70	33	34	4.2	1.3	1.6	2.5
22	1.3	17	11	6.4	26	65	31	31	5.2	1.3	1.7	2.3
23	5.1	16	11	6.4	28	60	29	32	7.3	1.1	1.2	2.1
24	14	15	11	6.4	30	58	26	27	6.4	.98	.78	1.8
25	15	14	9.9	6.6	29	54	21	23	5.6	.93	.62	1.5
26	11	11	9.5	7.6	27	50	32	22	5.9	9.8	.56	1.3
27	7.2	9.3	9.5	9.8	26	47	23	18	7.0	.82	11	1.3
28	1.3	8.6	9.5	11	28	46	21	17	5.8	.10	2.4	1.2
29	2.8	6.1	9.3	12	------	45	29	18	4.7	.15	.48	1.2
30	4.9	7.0	9.3	11	------	46	37	15	4.1	.27	.69	1.0
31	4.3	------	9.0	10	------	47	------	18	------	.41	.61	------
TOTAL	104.67	290.40	311.0	277.7	512.2	1,495	1,232	1,142	282.5	54.24	84.31	60.02
MEAN	3.38	9.68	10.0	8.96	18.3	48.2	41.1	36.8	9.42	1.75	2.72	2.00
MAX	15	24	21	14	30	90	68	79	20	9.8	17	6.1
MIN	.21	.80	6.8	6.4	7.0	27	21	15	4.1	.10	.48	.65
CFSM	.27	.76	.79	.71	1.44	3.80	3.24	2.90	.74	.14	.21	.16
IN.	.31	.85	.91	.81	1.50	4.38	3.61	3.35	.83	.16	.25	.18

CAL YR 1970 TOTAL 7,373.90 MEAN 20.2 MAX 215 MIN .21 CFSM 1.59 IN 21.60
WTR YR 1971 TOTAL 5,846.04 MEAN 16.0 MAX 90 MIN .10 CFSM 1.26 IN 17.12

PEAK DISCHARGE (BASE, 90 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
†3-18	-	-	†95				

† About.

NOTE.--No gage-height record Jan. 19 to Feb. 23, Mar. 8 to Apr. 9.

01097500 Sudbury River at Framingham Center, Mass.

LOCATION.--Lat 42°17'29", long 71°26'35", Middlesex County, at dam of Framingham Reservoir No. 1, 0.5 mile upstream from outlet of Farm Pond and 0.8 mile southwest of Framingham Center.

DRAINAGE AREA.--75.2 sq mi since January 1881.

PERIOD OF RECORD.--January 1875 to current year.

AVERAGE DISCHARGE.--96 years, 112 cfs (20.23 inches per year), adjusted to present drainage area.

REMARKS.--Records adjusted for change in reservoir contents, diversions, and wastage. Flow diverted as needed for use of Boston metropolitan district. Part of flow from Wachusett Reservoir on South Branch Nashua River is diverted into Sudbury Reservoir en route to Boston metropolitan district.

COOPERATION.--Records furnished by Water Division of Metropolitan District Commission.

REVISIONS (WATER YEARS).--WSP 1051: 1937.

MONTHLY DISCHARGE AND RAINFALL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

Month	Runoff (millions of gallons)	Discharge per square mile		Runoff (inches)	Rainfall (inches)
		Millions of gallons per day	Cubic feet per second		
October	522.2	0.224	0.35	0.40	2.84
November	1,231.5	.546	.84	.94	3.42
December	1,895.2	.813	1.26	1.45	4.81
Calendar year 1970	30,475.3	1.110	1.72	23.32	40.30
January	1,573.0	.675	1.04	1.20	1.86
February	3,090.1	1.468	2.27	2.36	4.51
March	7,339.9	3.149	4.87	5.62	2.66
April	4,102.6	1.819	2.81	3.14	2.64
May	3,958.1	1.698	2.63	3.03	4.20
June	580.5	.257	.40	.44	1.43
July	-181.8	-.078	-.12	-.14	4.19
August	-65.7	-.028	-.04	-.05	2.74
September	70.8	.031	.05	.05	2.75
Water year 1971	24,116.4	.88	1.36	18.44	38.05

NOTE.--Negative figures indicate that evaporation and seepage from reservoirs exceeded inflow.

01099500 Concord River below River Meadow Brook, at Lowell, Mass.

LOCATION.--Lat 42°38'12", long 71°18'09", Middlesex County, on right bank 300 ft downstream from Rogers Street Bridge at Lowell, 0.3 mile downstream from River Meadow Brook, and 0.8 mile upstream from mouth.

DRAINAGE AREA.--Total above gage, 405 sq mi; net above gage, 312 sq mi (diversion as needed from 92.6 sq mi for use of Boston metropolitan district).

PERIOD OF RECORD.--October 1936 to current year. October, November 1936 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 67.41 ft above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--35 years, 446 cfs (19.41 inches per year), adjusted to net drainage area.

EXTREMES.--Current year: Maximum discharge, 1,970 cfs Mar. 20 (gage height, 6.94 ft); minimum daily, 55 cfs Sept. 6, 10, 11.
Period of record: Maximum discharge, 4,800 cfs Mar. 22, 1968 (gage height, 9.16 ft); minimum daily, 4.0 cfs Sept. 29, 1957.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Daily discharge includes water wasted from 92.6 sq mi in basins of Sudbury River and Lake Cochituate. Prior to December 1961, water diverted above station for use of city of Lowell. Low flow regulated by mills above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	217	329	434	320	1,100	1,440	752	656	138	140	102
2	100	204	334	434	300	1,200	1,420	758	619	128	154	91
3	95	214	325	434	290	1,300	1,420	778	592	115	151	85
4	100	231	367	434	275	1,400	1,410	824	580	113	243	75
5	130	302	424	461	265	1,500	1,430	824	552	111	201	65
6	130	325	461	489	269	1,500	1,360	804	516	100	174	55
7	120	325	467	494	273	1,450	1,350	791	475	91	151	56
8	110	307	445	478	286	1,450	1,380	771	440	83	128	59
9	100	286	413	445	320	1,400	1,410	752	445	83	113	58
10	95	265	397	413	347	1,400	1,420	831	430	77	100	55
11	90	273	377	397	367	1,350	1,400	859	404	70	93	55
12	86	273	367	377	387	1,350	1,370	887	376	65	93	75
13	82	265	347	360	400	1,300	1,350	959	344	66	93	106
14	78	298	357	362	450	1,300	1,290	1,090	314	68	91	189
15	75	347	367	372	500	1,400	1,220	1,110	294	66	85	240
16	82	419	347	370	580	1,500	1,170	1,140	270	68	83	255
17	100	429	329	365	680	1,660	1,110	1,210	247	73	79	240
18	120	418	382	350	740	1,740	1,060	1,230	225	87	70	212
19	110	402	450	325	780	1,840	1,040	1,220	208	95	65	177
20	95	392	483	305	800	1,930	1,010	1,180	186	111	118	157
21	86	424	511	300	810	1,960	978	1,130	198	115	85	148
22	85	434	505	298	820	1,940	936	1,090	229	113	71	135
23	127	439	456	298	830	1,900	894	1,040	192	106	71	125
24	224	429	413	294	840	1,850	852	994	186	95	70	111
25	320	408	429	286	860	1,790	824	957	174	81	66	102
26	362	377	450	294	880	1,730	791	906	192	77	59	97
27	357	347	460	325	920	1,660	771	846	177	102	58	93
28	329	320	461	335	1,000	1,590	745	798	162	93	83	95
29	277	316	456	334	------	1,550	752	756	154	79	108	91
30	246	325	450	325	------	1,510	765	703	143	95	123	85
31	235	------	439	325	------	1,470	------	679	------	115	113	------
TOTAL	4,656	10,010	12,798	11,513	15,589	48,020	34,338	28,669	9,980	2,879	3,332	3,489
MEAN	150	334	413	371	557	1,549	1,145	925	333	92.9	107	116
MAX	362	439	511	494	1,000	1,960	1,440	1,230	656	138	243	255
MIN	75	204	325	286	265	1,100	745	679	143	65	58	55
MEAN†	132	272	268	234	377	1,121	916	702	283	72.0	87.7	93.8
CFSM†	.42	.87	.86	.75	1.21	3.59	2.94	2.25	.91	.23	.28	.30
IN.†	.49	.97	.99	.86	1.26	4.14	3.28	2.59	1.01	.27	.32	.34

CAL YR 1970 TOTAL 242,434 MEAN 664 MAX 2,780 MIN 49 MEAN† 509 CFSM† 1.63 IN† 22.15
WTR YR 1971 TOTAL 185,273 MEAN 508 MAX 1,960 MIN 55 MEAN† 380 CFSM† 1.22 IN† 16.53

† Adjusted for water wasted from 92.6 sq mi in basins of Sudbury River and Lake Cochituate (figures represent net discharge from net drainage area). Records of wastage furnished by Water Division of Metropolitan District Commission.

NOTE.--No gage-height record Oct. 1-21, Feb. 13 to Mar. 15.

MERRIMACK RIVER BASIN

01100000 Merrimack River below Concord River, at Lowell, Mass.

(International Hydrological Decade River Station)

LOCATION.--Lat 42°38'45", long 71°17'56", Middlesex County, on right bank at Lowell, 1,100 ft downstream from Concord River.

DRAINAGE AREA.--Total above gage, 4,635 sq mi; net above gage, 4,425 sq mi (diversions as needed from 210 sq mi for use of Boston metropolitan district and city of Worcester).

PERIOD OF RECORD.--June 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.18 ft above mean sea level. Prior to Mar. 7, 1934, at Boott Mills 1,800 ft upstream and 700 ft above mouth of Concord River, in same gage pool and at same datum; gage-height record (furnished by Proprietors of the Locks and Canals on Merrimack River) was indicative of flow including that of Concord River.

AVERAGE DISCHARGE.--48 years, 7,055 cfs (21.65 inches per year), adjusted for wastage to Merrimack River.

EXTREMES.--Current year: Maximum discharge, 31,700 cfs Apr. 15, May 6 (gage height, 48.93 ft); minimum daily, 337 cfs Sept. 6.
Period of record: Maximum discharge, 173,000 cfs Mar. 20, 1936 (gage height, 68.4 ft, from floodmarks); minimum daily, 199 cfs Sept. 23, 1923.
Maximum discharge since 1735, that of Mar. 20, 1936.

REMARKS.--Records excellent. Daily discharge includes water wasted from 210 sq mi in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate. Flow regulated by powerplants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs above station. See page 65 for description and monthend usable contents of many of these reservoirs. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,990	3,350	5,020	3,430	4,330	8,880	11,700	19,100	7,170	2,500	2,980	2,430
2	2,380	3,830	4,830	4,220	3,900	9,240	12,300	18,000	6,770	2,370	2,880	2,340
3	2,080	3,200	4,450	4,070	3,750	9,520	15,300	17,400	5,990	1,920	3,100	2,370
4	1,330	2,880	5,170	4,360	3,570	9,200	20,700	21,500	5,680	1,760	3,390	1,440
5	2,440	3,450	7,440	4,450	3,680	8,260	23,300	29,500	5,160	782	3,760	1,080
6	3,350	3,620	7,410	4,810	3,210	8,080	23,300	30,600	5,100	2,190	3,120	337
7	3,130	3,010	6,880	4,990	3,350	7,960	22,300	26,200	4,720	2,240	3,040	2,180
8	3,330	2,800	5,860	4,940	3,850	7,960	22,200	21,700	4,120	2,150	2,370	2,160
9	3,270	3,480	4,600	4,520	3,880	7,690	20,300	19,300	4,310	1,760	2,330	2,030
10	3,060	3,640	4,710	4,230	4,080	7,640	18,300	19,000	4,370	1,160	2,340	1,760
11	2,400	3,280	4,680	4,330	4,150	7,620	20,100	19,200	4,310	618	2,240	960
12	2,490	3,000	4,360	4,300	4,430	7,540	24,100	17,700	3,780	1,540	2,530	901
13	2,440	3,330	4,690	4,330	4,250	6,920	26,700	17,800	3,250	1,610	2,260	1,780
14	1,640	2,630	5,090	3,620	5,040	7,160	29,900	20,300	3,150	1,490	1,570	2,160
15	1,700	2,790	5,280	3,790	5,710	7,540	31,200	21,300	2,730	1,330	806	2,510
16	2,190	4,340	5,070	4,590	6,820	8,920	29,400	18,800	2,770	1,240	2,160	3,390
17	2,050	4,260	4,810	4,000	6,890	12,000	25,300	17,000	2,580	588	2,090	3,070
18	2,330	3,750	4,580	4,000	7,430	14,400	21,400	15,300	2,380	518	2,170	1,910
19	2,390	4,040	4,320	3,630	7,400	14,400	19,600	14,600	1,740	1,420	1,870	2,560
20	2,560	4,070	5,190	3,980	6,840	13,900	20,100	14,100	1,580	1,540	1,380	3,220
21	2,340	4,900	4,940	3,750	6,210	13,100	23,300	13,200	2,080	1,580	1,020	2,520
22	2,360	6,480	4,640	3,480	6,550	12,400	26,400	13,100	2,180	1,550	970	2,510
23	3,030	8,040	4,250	3,280	6,400	11,500	26,200	12,900	2,300	1,620	1,790	2,500
24	5,490	7,270	4,500	3,310	6,280	10,900	24,100	12,300	2,340	1,220	1,700	2,310
25	6,620	7,390	3,570	4,040	6,230	10,800	21,400	11,300	2,290	1,080	1,360	1,440
26	6,640	6,270	4,210	3,870	6,030	10,200	19,900	9,500	2,040	1,720	1,050	1,500
27	5,720	5,220	4,810	4,840	5,830	9,720	19,300	8,960	1,860	2,100	1,070	2,380
28	4,920	4,430	4,780	5,190	6,500	9,680	18,000	9,570	3,030	1,850	988	2,410
29	3,980	4,000	4,670	4,440	------	10,000	16,900	8,310	2,960	1,810	1,140	2,180
30	3,390	4,960	4,780	4,430	------	10,600	18,000	7,180	2,590	1,780	3,240	1,870
31	2,840	------	4,460	4,020	------	11,400	------	7,130	------	1,540	2,650	------
TOTAL	95,880	127,710	154,050	129,240	146,590	305,130	651,000	511,850	105,330	48,576	65,364	62,208
MEAN	3,093	4,257	4,969	4,169	5,235	9,843	21,700	16,510	3,511	1,567	2,109	2,074
MAX	6,640	8,040	7,440	5,190	7,430	14,400	31,200	30,600	7,170	2,500	3,760	3,390
MIN	1,330	2,630	3,570	3,280	3,210	6,920	11,700	7,130	1,580	518	806	337
MEAN†	3,067	4,188	4,818	4,024	5,047	9,407	21,460	16,280	3,453	1,538	2,081	2,043
CFSM†	.69	.95	1.09	.91	1.14	2.13	4.85	3.68	.78	.35	.47	.46
IN.†	.80	1.06	1.26	1.05	1.19	2.45	5.41	4.24	.87	.40	.54	.52

CAL YR 1970 TOTAL 2,857,085 MEAN 7,828 MAX 40,700 MIN 397 MEAN† 7,665 CFSM† 1.73 IN† 23.52
WTR YR 1971 TOTAL 2,402,928 MEAN 6,583 MAX 31,200 MIN 337 MEAN† 6,448 CFSM† 1.46 IN† 19.78

† Adjusted for water wasted from 210 sq mi in basins of Sudbury and South Branch Nashua Rivers and Lake Cochituate (figures represent net discharge from net drainage area). Records of wastage furnished by Water Division of Metropolitan District Commission.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01100600 Shawsheen River near Wilmington, Mass.

LOCATION.--Lat 42°34'05", long 71°12'55", Middlesex County, on right bank at downstream side of bridge on State Highway 129, 1 mile upstream from Content Brook, and 2.5 miles northwest of Wilmington.

DRAINAGE AREA.--36.6 sq mi.

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.44 ft above mean sea level.

AVERAGE DISCHARGE.--7 years (1964-71), 48.1 cfs (18.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 329 cfs Mar. 17 (gage height, 5.87 ft); minimum, 4.3 cfs Sept. 6, 7, 11, 12.
Period of record: Maximum discharge, 1,050 cfs Mar. 19, 1968 (gage height, 8.60 ft); minimum, 1.2 cfs Aug. 30, 31, Sept. 1, 2-4, 1966.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--WRD Mass., N.H., R.I., Vt. 1969: Drainage area. Revised figures of discharge in cubic feet per second per square mile and runoff in inches for water year 1970, superseding those published in WRD Mass., N.H., R.I., Vt. 1970, are given herewith:

	Oct.	Nov.	Dec.	Cal. Year 1969	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year 1970
CFSM	.46	3.17	4.18	1.78	1.99	4.48	2.48	3.39	1.95	1.11	.48	.36	.34	2.01
IN.	.53	3.53	4.81	24.22	2.29	4.68	2.86	3.79	2.25	1.23	.55	.42	.38	27.32

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	19	30	30	28	160	90	78	44	14	29	6.5
2	10	19	29	29	26	170	86	76	47	15	35	5.8
3	8.8	23	28	29	24	155	85	71	46	15	31	5.2
4	14	33	35	30	20	145	89	80	48	14	36	4.9
5	19	38	53	31	19	140	90	98	55	12	34	4.4
6	14	48	65	35	20	135	83	87	56	11	23	4.3
7	12	56	61	39	22	130	81	75	49	9.6	16	4.4
8	10	52	44	41	24	130	102	67	39	8.4	12	5.0
9	9.6	40	32	39	27	125	126	63	42	7.8	9.1	5.1
10	9.2	30	29	37	29	119	123	72	57	7.2	7.6	4.5
11	9.1	28	29	34	32	110	111	107	62	6.7	7.0	4.6
12	9.1	33	28	32	35	105	99	108	49	6.4	10	5.7
13	9.1	34	26	30	40	101	88	92	36	6.1	12	14
14	8.8	34	26	28	60	100	81	137	30	6.3	8.4	19
15	10	42	27	26	100	109	72	157	25	7.7	7.0	22
16	14	40	24	26	130	216	67	115	22	13	6.8	17
17	22	54	24	25	120	314	63	117	20	16	6.5	13
18	18	53	34	23	100	240	63	136	18	27	5.8	11
19	14	44	41	21	92	181	63	111	16	22	5.1	9.1
20	13	37	50	19	94	176	67	91	14	20	9.4	8.0
21	13	39	52	18	96	201	71	80	14	19	10	8.0
22	13	47	54	18	100	167	66	73	26	16	7.6	9.1
23	18	51	48	19	95	146	61	71	32	13	6.3	8.0
24	41	48	42	20	100	137	56	67	31	9.4	5.6	7.0
25	52	41	40	21	105	123	53	61	25	8.0	5.2	6.5
26	55	33	38	23	95	113	52	54	28	7.2	5.0	6.1
27	48	29	37	25	92	105	52	51	28	7.6	5.3	6.2
28	35	29	36	30	110	100	52	48	25	9.4	11	6.6
29	27	29	35	32	------	98	56	46	20	8.3	14	6.5
30	23	29	33	31	------	96	67	42	17	9.6	11	6.2
31	20	------	31	30	------	94	------	41	------	20	7.7	------
TOTAL	589.7	1,141	1,161	871	1,835	4,441	2,315	2,572	1,021	372.7	359.4	243.8
MEAN	19.0	38.0	37.5	28.1	65.5	143	77.2	83.0	34.0	12.0	12.9	8.13
MAX	55	56	65	41	130	314	126	157	62	27	36	22
MIN	8.8	19	24	18	19	94	52	41	14	6.1	5.0	4.3
CFSM	.52	1.04	1.02	.77	1.79	3.91	2.11	2.27	.93	.33	.35	.22
IN.	.60	1.16	1.18	.89	1.87	4.51	2.35	2.61	1.04	.38	.41	.25

CAL YR 1970 TOTAL 21,042.6 MEAN 57.7 MAX 655 MIN 4.7 CFSM 1.58 IN 21.39
WTR YR 1971 TOTAL 16,962.6 MEAN 46.5 MAX 314 MIN 4.3 CFSM 1.27 IN 17.24

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	0945	5.87	329				

MERRIMACK RIVER BASIN

01100700 East Meadow River near Haverhill, Mass.

LOCATION.--Lat 42°48'41", long 71°01'59", Essex County, on left bank 10 ft downstream from culvert on State Highway 110 and 3.5 miles northeast of Haverhill.

DRAINAGE AREA.--4.93 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 7.87 cfs (21.68 inches per year).

EXTREMES.--Current year: Maximum discharge, 55 cfs Mar. 17 (gage height, 4.10 ft); minimum, 0.13 cfs Aug. 10.
Period of record: Maximum discharge, 211 cfs Mar. 19, 1968 (gage height, 5.45 ft); minimum, 0.05 cfs Sept. 5, 6, 1963.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since March 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	3.2	5.7	3.9	4.0	27	30	20	8.8	3.2	1.9	.37
2	1.3	3.1	5.5	3.8	3.6	30	30	19	7.0	8.3	1.1	.31
3	1.3	3.1	5.0	3.8	3.4	27	40	22	6.2	5.3	.88	.28
4	1.6	3.1	9.9	3.7	2.9	23	42	26	6.8	2.9	2.6	.31
5	1.6	8.2	16	4.0	2.6	21	35	20	6.2	2.2	2.6	.28
6	1.6	14	11	4.8	2.7	21	29	16	5.3	1.9	.67	.31
7	1.5	10	8.0	6.0	2.9	20	29	13	4.8	1.7	.31	.31
8	1.4	6.5	5.5	6.2	3.1	20	32	11	5.3	1.6	.20	.34
9	1.2	4.8	4.5	6.2	3.5	20	32	12	12	1.5	.15	.34
10	1.4	4.3	3.9	5.2	3.8	19	34	29	10	1.5	.14	.34
11	1.3	5.5	3.8	4.2	4.2	16	36	26	5.9	1.2	.22	.31
12	1.3	8.0	3.7	3.9	4.6	15	33	17	4.5	1.1	1.2	.51
13	1.3	7.0	3.4	3.6	6.0	15	28	21	4.1	1.1	.61	.67
14	1.3	7.0	3.4	3.4	11	16	25	46	4.1	1.1	.25	2.9
15	1.3	9.0	3.5	3.3	21	19	22	31	3.8	1.1	.20	2.7
16	1.4	13	3.2	3.2	23	37	20	22	3.6	1.1	.18	1.5
17	1.4	11	4.0	3.0	25	54	19	30	3.3	1.1	.15	3.0
18	1.4	7.7	5.2	2.8	19	48	18	28	3.2	2.2	.15	3.5
19	1.4	6.5	6.2	2.6	15	39	21	20	2.9	1.8	.15	1.8
20	1.4	6.2	7.0	2.4	13	36	22	16	2.6	2.1	3.6	1.1
21	1.4	9.6	7.8	2.3	12	38	19	14	3.3	1.6	5.1	.96
22	1.3	10	8.0	2.3	11	34	16	14	12	1.1	1.1	.88
23	7.2	8.5	7.0	2.3	11	30	14	15	11	.88	.37	.74
24	27	9.0	6.0	2.3	11	27	13	12	5.9	.81	.28	.67
25	20	7.2	5.3	2.3	11	25	12	9.9	4.4	.81	.25	.61
26	11	5.2	5.0	2.8	10	24	15	9.1	6.1	.74	.22	.61
27	7.5	5.0	4.8	3.7	10	24	14	8.0	5.0	.96	.61	.67
28	5.5	5.2	4.6	5.0	14	24	12	7.3	3.5	1.1	2.1	.67
29	4.3	5.5	4.4	6.2	------	27	15	6.8	2.7	.88	1.6	.74
30	3.9	5.7	4.3	6.5	------	33	21	6.4	2.5	1.6	.67	.56
31	3.4	------	4.1	5.0	------	32	------	7.0	------	2.2	.46	------
TOTAL	120.4	212.1	179.7	120.7	264.3	841	728	554.5	166.8	56.68	30.02	28.29
MEAN	3.88	7.07	5.80	3.89	9.44	27.1	24.3	17.9	5.56	1.83	.97	.94
MAX	27	14	16	6.5	25	54	42	46	12	8.3	5.1	3.5
MIN	1.2	3.1	3.2	2.3	2.6	15	12	6.4	2.5	.74	.14	.28
CFSM	.79	1.43	1.18	.79	1.91	5.50	4.93	3.63	1.13	.37	.20	.19
IN.	.91	1.60	1.36	.91	1.99	6.35	5.49	4.18	1.26	.43	.23	.21

CAL YR 1970 TOTAL 3,349.41 MEAN 9.18 MAX 96 MIN .45 CFSM 1.86 IN 25.27
WTR YR 1971 TOTAL 3,302.49 MEAN 9.05 MAX 54 MIN .14 CFSM 1.84 IN 24.92

PEAK DISCHARGE (BASE, 65 CFS).--No peaks above base.

Reservoirs in Merrimack River basin

01077500. NEWFOUND LAKE on Newfound River, 1.7 miles north of Bristol, N.H., used for recreation and for storage of water for power, has usable capacity of 1,690,000,000 cu ft. Records furnished by Public Service Co. of New Hampshire.

01078500. FRANKLIN FALLS RESERVOIR on Pemigewasset River, 2 miles north of Franklin, N.H., completed in 1942, used for flood control, has usable capacity of 6,700,000,000 cu ft. Records furnished by Corps of Engineers.

01079000. MERRYMEETING LAKE on Merrymeeting River, 2.5 miles northeast of Alton, N.H., used for recreation and for storage of water for power, has usable capacity of 368,000,000 cu ft. Records furnished by New Hampshire Fish and Game Department.

01079500. LAKE WENTWORTH above Lake Winnipesaukee at Wolfeboro Falls, N.H., used for recreation and for storage of water for power, has usable capacity of 854,000,000 cu ft. Records furnished by O. P. Berry Co.

01080000. LAKE WINNIPESAUKEE on Winnipesaukee River (see p. 35).

01082500. EDWARD MACDOWELL RESERVOIR on Nubanusit Brook, at West Peterborough, N.H., 2 miles northwest of Peterborough, completed in 1950, used for flood control, has usable capacity of 558,000,000 cu ft. Records furnished by Corps of Engineers.

01085400. HOPKINTON LAKE on Contoocook River, at West Hopkinton, N.H., completed in 1962, used for flood control and recreation, has usable capacity of 3,084,000,000 cu ft. Records furnished by Corps of Engineers.

01086500. BLACKWATER RESERVOIR on Blackwater River, at Swett's Mills, 1 mile south of Webster, N.H., completed in 1941, used for flood control, has usable capacity of 2,004,000,000 cu ft. Records furnished by Corps of Engineers.

01090700. EVERETT LAKE on Piscataquog River, 1.3 miles southeast of East Weare, N.H., completed in 1962, used for flood control and recreation, has usable capacity of 3,768,000,000 cu ft. Records furnished by Corps of Engineers.

Hopkinton and Everett Lakes, connected by a canal, are operated as a unit above elevation 400.00 ft. Diversion from Hopkinton Lake to Everett Lake in March 1968, April 1969.

01092500. TOWER HILL POND on Maple Falls Brook, 2.3 miles north of Auburn, N.H., completed in 1939, used for storage of water for municipal supply and for power, has usable capacity of 182,000,000 cu ft. Records furnished by Manchester Water Works.

01093500. MASSABESIC LAKE on Cohas Brook, 2.5 miles southeast of Manchester, N.H., used for storage of water for municipal supply, has usable capacity of 724,000,000 cu ft. Records furnished by Manchester Water Works.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	Newfound Lake	Franklin Falls Reservoir	Merrymeeting Lake	Lake Wentworth	Edward MacDowell Reservoir
Sept. 30, 1970	965	135	299	594	18.3
Oct. 31	1,080	118	310	a 620	17.5
Nov. 30	1,242	122	262	a 650	18.3
Dec. 31	1,089	109	300	-	17.5
Jan. 31, 1971	865	115	306	-	17.5
Feb. 28	791	122	332	-	19.1
Mar. 31	746	122	228	-	21.6
Apr. 30	1,491	316	286	a 880	32.0
May 31	1,544	135	345	a 830	18.3
June 30	1,350	113	332	a 770	17.5
July 31	1,133	105	318	a 720	24.1
Aug. 31	993	107	302	a 670	18.3
Sept. 30	854	118	284	626	16.7

	Hopkinton Lake	Blackwater Reservoir	Everett Lake	Tower Hill Pond	Massabesic Lake
Sept. 30, 1970	12.9	0.2	46.4	128.6	340
Oct. 31	11.3	.5	51.5	75.5	371
Nov. 30	18.8	.7	48.7	74.1	411
Dec. 31	27.9	.8	57.2	85.3	493
Jan. 31, 1971	31.7	.8	57.7	48.0	396
Feb. 28	42.1	1.0	59.4	61.8	351
Mar. 31	46.1	1.7	52.6	92.5	359
Apr. 30	44.7	8.1	57.7	174.5	657
May 31	32.2	1.0	54.3	173.5	692
June 30	25.7	.2	47.0	172.6	598
July 31	22.7	.2	49.2	174.5	492
Aug. 31	15.5	.5	48.1	171.8	387
Sept. 30	8.5	.2	46.4	171.8	336

a Estimated.

01101000 Parker River at Byfield, Mass.

LOCATION.--Lat 42°45'10", long 70°56'46", Essex County, on left bank 1,400 ft downstream from dam, 0.5 mile south of Byfield, 0.7 mile upstream from Wheeler Brook, and 5.5 miles southwest of Newburyport.

DRAINAGE AREA.--21.6 sq mi.

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 23.46 ft above mean sea level (levels by Massachusetts Department of Public Works).

AVERAGE DISCHARGE.--26 years, 34.5 cfs (21.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 164 cfs Mar. 19 (gage height, 3.39 ft); minimum daily, 1.8 cfs Sept. 15, 29, 30.
Period of record: Maximum discharge, 489 cfs Mar. 19, 1968 (gage height, 5.61 ft); minimum daily, 0.09 cfs Sept. 25-30, Oct. 3-6, 1957.

REMARKS.--Records excellent except those below 10 cfs, which are good. Some regulation at low flow by mill and ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	16	23	29	20	74	106	56	40	7.7	5.8	3.0
2	3.0	15	22	28	19	82	103	56	38	8.0	6.0	2.7
3	3.0	14	21	27	19	88	105	57	37	8.0	5.8	2.5
4	3.4	13	25	26	18	86	106	60	36	7.7	11	2.3
5	3.2	20	27	28	18	88	104	62	35	7.2	11	2.3
6	3.4	25	30	28	18	89	98	61	33	6.3	13	2.2
7	3.4	30	30	28	18	91	104	57	31	5.5	14	2.3
8	3.4	33	27	27	18	91	109	54	31	4.7	13	2.3
9	3.2	32	24	27	20	89	110	54	32	4.2	12	2.2
10	3.2	29	23	28	20	86	112	62	31	3.8	10	2.2
11	3.2	28	22	27	20	82	112	71	31	3.4	10	2.0
12	3.2	27	21	26	20	77	107	72	29	3.0	9.8	2.0
13	3.2	26	21	24	23	74	101	75	27	2.8	9.1	2.0
14	3.4	27	20	24	27	72	95	89	26	2.8	8.4	2.0
15	3.0	29	20	24	27	75	88	99	23	2.5	7.4	1.8
16	3.4	32	20	23	29	94	82	96	21	2.3	6.6	2.2
17	3.2	34	23	23	32	124	77	103	19	3.4	6.0	2.3
18	3.2	34	26	23	34	153	72	104	17	3.4	5.2	2.3
19	3.2	32	27	22	38	161	72	99	15	4.0	4.5	2.3
20	3.2	31	29	21	42	163	71	90	13	4.5	5.0	2.2
21	3.2	32	31	20	46	159	68	82	12	4.5	4.2	2.3
22	3.2	32	31	20	49	155	63	77	13	4.2	4.0	2.2
23	6.0	34	30	19	53	151	60	73	12	3.4	4.0	2.0
24	10	34	29	19	54	145	56	68	12	2.7	3.6	1.9
25	15	32	28	19	56	137	54	64	11	2.7	3.2	1.9
26	19	29	29	19	58	129	52	59	12	2.5	2.7	1.9
27	20	26	29	20	61	121	50	54	11	4.5	3.4	1.9
28	20	25	29	20	67	115	49	50	10	3.6	3.4	1.9
29	19	24	30	21	------	112	51	47	9.4	3.8	3.4	1.8
30	18	24	30	21	------	109	53	44	8.0	5.0	3.4	1.8
31	17	------	30	20	------	108	------	42	------	5.2	3.4	------
TOTAL	215.0	819	807	731	924	3,380	2,490	2,137	675.4	137.3	212.3	64.7
MEAN	6.94	27.3	26.0	23.6	33.0	109	83.0	68.9	22.5	4.43	6.85	2.16
MAX	20	34	31	29	67	163	112	104	40	8.0	14	3.0
MIN	3.0	13	20	19	18	72	49	42	8.0	2.3	2.7	1.8
CFSM	.32	1.26	1.20	1.09	1.53	5.05	3.84	3.19	1.04	.21	.32	.10
IN.	.37	1.41	1.39	1.26	1.59	5.82	4.29	3.68	1.16	.24	.37	.11

CAL YR 1970 TOTAL 13,193.2 MEAN 36.1 MAX 180 MIN 1.6 CFSM 1.67 IN 22.72
WTR YR 1971 TOTAL 12,592.7 MEAN 34.5 MAX 163 MIN 1.8 CFSM 1.60 IN 21.69

01101300 Maple Meadow Brook at Wilmington, Mass.

LOCATION.--Lat 42°32'15", long 71°09'41", Middlesex County, on right bank 10 ft upstream from culvert on State Highway 38 and 0.9 mile southeast of Wilmington.

DRAINAGE AREA.--3.99 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 75.71 ft above mean sea level.

AVERAGE DISCHARGE.--8 years (1963-71), 6.70 cfs (22.80 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 41 cfs Mar. 17 (gage height, 3.90 ft); no flow for many days during year.
Period of record: Maximum discharge, 119 cfs Mar. 19, 1968 (gage height, 5.63 ft), from rating curve extended above 47 cfs on basis of measurements of flow through culvert at gage heights 5.33 and 5.63 ft; no flow for many days each year.

REMARKS.--Records good except those for winter period, which are fair. Water diverted above station for municipal supply of Wilmington since January 1964 (see table below). Recording rain gage at station since March 1963 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1968: 1964-67 (monthly and yearly runoff and diversions).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.8	2.6	2.2	17	12	9.6	5.9	.89		
2		0	2.6	2.5	1.8	23	11	8.7	5.8	.84		
3		.21	2.5	2.5	1.6	21	11	9.2	5.3	.79		
4		.46	3.8	2.4	1.4	19	11	11	6.1	.63		
5		.94	5.2	2.4	1.2	18	11	11	6.1	.46		
6		1.4	5.3	2.9	1.4	17	9.8	9.8	5.0	.36		
7		1.5	4.6	3.3	1.6	17	11	8.7	4.2	.31		
8		2.4	3.5	3.7	1.7	17	13	7.5	3.8	.20		
9		2.2	3.0	3.4	2.0	17	14	7.8	5.6	.13		
10		1.9	2.9	2.7	2.2	17	14	11	6.2	.09		
11		1.9	2.8	2.3	2.6	16	14	13	5.4	.04		
12		2.2	2.8	2.0	3.2	16	13	12	4.2	.01		
13		2.2	2.7	1.9	4.7	16	12	12	3.2	0		
14		2.1	2.8	1.8	7.4	18	11	18	2.4	0		
15		2.1	2.6	1.7	14	21	9.6	17	1.9	0		
16		3.0	2.2	1.6	17	32	8.9	15	1.6	0		
17		3.1	2.9	1.5	15	40	8.4	18	1.4	0		
18		3.0	3.4	1.4	13	35	8.1	18	1.1	0		
19		2.8	4.0	1.3	12	28	8.7	15	.79	0		
20		2.7	4.5	1.2	12	28	9.3	13	.56	0		
21		3.3	4.9	1.2	12	29	9.3	11	.53	.01		
22		3.6	5.2	1.2	13	26	8.6	11	1.3	0		
23		3.7	4.6	1.2	12	23	7.5	11	2.0	0		
24		3.5	4.1	1.2	12	21	7.8	9.8	2.0	0		
25		3.0	3.6	1.2	12	19	10	8.9	1.6	0		
26		2.6	3.3	1.3	12	17	9.3	7.8	2.2	0		
27		2.5	3.2	1.6	12	16	9.0	6.9	2.8	0		
28		2.5	3.1	2.2	14	15	8.3	6.3	2.4	0		
29		2.6	3.0	2.8	------	15	8.6	5.8	1.7	0		
30		2.7	2.8	3.1	------	14	10	5.3	1.3	0		
31		------	2.7	2.5	------	13	------	5.4	------	0		------
TOTAL	0	66.11	107.4	64.6	217.0	641	309.2	334.5	94.38	4.76	0	0
MEAN	0	2.20	3.46	2.08	7.75	20.7	10.3	10.8	3.15	.15	0	0
MAX	0	3.7	5.3	3.7	17	40	14	18	6.2	.89	0	0
MIN	0	0	2.2	1.2	1.2	13	7.5	5.3	.53	0	0	0
(†)	1.33	1.23	1.14	1.61	1.61	1.60	1.68	1.61	1.96	1.49	1.52	1.47

CAL YR 1970 TOTAL 2,210.71 MEAN 6.06 MAX 54 MIN 0 MEAN‡ 7.62 CFSM‡ 1.91 IN‡ 25.93
WTR YR 1971 TOTAL 1,838.95 MEAN 5.04 MAX 40 MIN 0 MEAN‡ 6.56 CFSM‡ 1.64 IN‡ 22.32

PEAK DISCHARGE (BASE, 45 CFS, REVISED).--No peaks above base.

† Diversion, in cubic feet per second, for municipal supply of Wilmington. Records furnished by town of Wilmington.
‡ Adjusted for diversion.

01101500 Ipswich River at South Middleton, Mass.

LOCATION.--Lat 42°34'10", long 71°01'39", Essex County, on right bank in Peabody, 700 ft downstream from Boston Street Bridge at South Middleton, 1.3 miles downstream from Wills Brook, and 2 miles south of Middleton.

DRAINAGE AREA.--43.4 sq mi.

PERIOD OF RECORD.--June 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 44.97 ft above mean sea level (Massachusetts Geodetic Survey bench mark).

AVERAGE DISCHARGE.--33 years, 69.0 cfs (21.59 inches per year), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 263 cfs Mar. 20 (gage height, 4.28 ft); minimum, 1.0 cfs Sept. 11, 12.
Period of record: Maximum discharge, 833 cfs Mar. 19, 1968 (gage height, 7.09 ft); minimum, 0.1 cfs Sept. 24, Oct. 1, 1957.

REMARKS.--Records good. Diversions above station for municipal supply of Reading, Lynn, and Peabody (see table below). Occasional regulation by mill above station.

REVISIONS (WATER YEARS).--WSP 1301: 1942(M). WSP 1621: 1938-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	2.7	16	31	9.4	160	121	81	49	9.9	13	2.0
2	8.4	1.8	14	29	7.2	179	116	77	43	4.3	8.0	1.8
3	8.4	3.7	17	28	5.3	180	120	81	42	7.6	1.5	1.8
4	12	6.4	44	28	3.4	167	126	91	42	1.8	13	1.6
5	10	15	48	32	2.9	162	112	87	39	4.6	14	1.8
6	9.9	22	66	37	4.0	156	101	84	34	1.6	12	1.6
7	9.4	20	52	39	5.0	149	130	81	30	2.9	12	1.6
8	8.9	16	23	36	6.4	152	155	77	30	6.0	11	1.6
9	8.4	14	19	32	9.9	147	151	78	50	5.7	9.9	1.5
10	8.0	12	16	28	12	135	148	95	46	5.3	8.0	1.3
11	7.2	12	15	27	12	131	130	99	42	4.3	7.2	1.2
12	7.2	14	14	26	13	126	123	89	39	3.7	7.6	1.2
13	7.2	13	13	25	20	115	117	95	37	3.4	6.8	1.3
14	7.2	16	14	19	42	115	106	136	35	2.9	5.7	8.4
15	6.4	22	22	21	53	125	108	124	29	2.2	5.3	7.2
16	7.6	33	13	34	58	184	89	121	8.9	2.2	5.0	5.3
17	8.4	32	36	15	60	233	90	148	3.7	1.8	4.3	4.6
18	8.4	27	60	13	64	232	87	145	3.4	2.2	3.7	4.6
19	8.4	24	58	12	74	235	95	139	5.3	3.2	3.4	4.3
20	7.6	23	46	8.9	82	253	85	129	16	5.7	4.3	3.7
21	7.2	35	45	7.2	87	248	81	121	17	1.5	3.4	4.3
22	6.8	38	42	7.2	91	224	78	115	31	3.4	2.9	3.7
23	7.6	35	39	6.0	97	213	80	109	22	5.0	2.9	2.9
24	19	31	37	5.3	105	197	83	101	5.7	3.2	2.7	2.7
25	16	25	48	5.3	108	178	83	94	5.3	2.5	2.5	2.5
26	14	21	34	8.0	108	162	75	82	5.7	3.7	2.0	2.2
27	14	19	46	12	122	151	64	67	4.6	6.4	2.5	2.0
28	12	17	35	13	137	141	63	61	3.2	4.6	3.4	2.0
29	9.4	16	39	12	------	137	72	56	7.2	3.2	3.2	2.0
30	7.2	19	33	12	------	134	84	52	18	11	2.7	1.8
31	4.3	------	31	11	------	128	------	50	------	19	2.5	------
TOTAL	284.9	585.6	1,035	619.9	1,398.5	5,249	3,073	2,965	744.0	144.8	186.4	84.5
MEAN	9.19	19.5	33.4	20.0	49.9	169	102	95.6	24.8	4.67	6.01	2.82
MAX	19	38	66	39	137	253	155	148	50	19	14	8.4
MIN	4.3	1.8	13	5.3	2.9	115	63	50	3.2	1.5	1.5	1.2
(†)	8.51	23.4	19.2	23.3	23.8	21.7	16.8	17.5	17.2	8.25	5.20	4.44

CAL YR 1970 TOTAL 23,156.1 MEAN 63.4 MAX 421 MIN 1.8 MEAN‡ 76.3 CFSM‡ 1.76 IN‡ 23.87
WTR YR 1971 TOTAL 16,370.6 MEAN 44.9 MAX 253 MIN 1.2 MEAN‡ 60.6 CFSM‡ 1.40 IN‡ 18.95

† Diversions, in cubic feet per second, for municipal supply of Reading, Lynn, and Peabody; records furnished by municipalities.
‡ Adjusted for diversions.

01102000 Ipswich River near Ipswich, Mass.

LOCATION.--Lat 42°39'35", long 70°53'39", Essex County, on left bank 200 ft downstream from Willowdale Dam, 1.5 miles downstream from Howlett Brook, and 4 miles upstream from Ipswich.

DRAINAGE AREA.--124 sq mi.

PERIOD OF RECORD.--June 1930 to current year. Prior to October 1930, published as "at Willowdale."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.63 ft above mean sea level.

AVERAGE DISCHARGE.--41 years, 198 cfs (21.68 inches per year), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 762 cfs Mar. 20 (gage height, 4.91 ft); minimum, 5.0 cfs Sept. 12.
Period of record: Maximum discharge, 2,680 cfs Mar. 20, 21, 1968 (gage height, 8.41 ft); minimum, 0.8 cfs Aug. 20, 1965.
Maximum discharge since 1886, that of Mar. 20, 21, 1968.

REMARKS.--Records excellent. Diversions above station for municipal supply of Reading, Lynn, Peabody, Danvers, Salem, and Beverly (see table below). Some regulation by reservoirs.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1621: 1930-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	39	84	127	81	394	461	236	197	35	43	10
2	17	35	81	121	81	436	443	241	185	39	41	9.1
3	17	40	78	116	81	470	433	255	176	35	34	8.0
4	19	44	85	113	86	464	425	269	170	30	40	6.9
5	21	56	93	115	78	488	419	273	163	27	49	6.7
6	21	70	102	118	69	496	408	279	155	23	53	6.4
7	20	77	105	121	64	484	442	276	147	21	51	6.1
8	19	78	101	125	64	474	474	264	143	19	45	6.7
9	18	78	105	126	72	453	492	255	143	17	38	6.2
10	17	75	103	122	75	430	507	276	137	17	31	5.6
11	16	72	96	117	77	399	505	294	132	17	26	5.3
12	16	69	90	112	80	373	494	307	127	16	25	5.3
13	15	67	79	110	88	365	467	328	122	14	25	5.7
14	14	74	83	109	108	352	432	361	117	14	23	7.7
15	13	86	80	104	105	355	398	373	111	14	20	18
16	15	97	72	98	115	440	376	395	104	13	18	20
17	18	101	86	96	136	542	351	440	95	13	16	19
18	19	102	106	98	163	637	330	454	80	20	15	15
19	18	102	116	95	196	703	321	450	61	21	13	14
20	17	101	128	91	218	751	309	435	48	22	13	13
21	16	105	140	87	221	744	300	412	44	22	14	13
22	16	105	144	79	221	732	289	392	62	21	13	13
23	28	108	141	72	228	697	277	375	69	17	12	14
24	61	109	135	67	229	657	264	353	70	14	10	14
25	80	110	134	63	234	618	252	330	65	14	9.0	9.4
26	84	106	134	64	243	581	242	307	61	13	8.1	6.4
27	80	102	135	68	272	550	235	284	59	15	9.2	6.7
28	72	97	136	77	326	530	227	266	51	19	13	7.2
29	62	93	136	83	———	508	228	245	43	20	15	7.0
30	53	88	135	85	———	490	231	227	35	21	15	6.5
31	45	———	131	81	———	474	———	210	———	34	12	———
TOTAL	945	2,486	3,374	3,060	4,011	16,087	11,030	9,962	3,172	637	749.3	291.9
MEAN	30.5	82.9	109	98.7	143	519	368	318	106	20.5	24.2	9.73
MAX	84	110	144	127	326	751	507	454	197	39	53	20
MIN	13	35	72	63	64	352	227	210	35	13	8.1	5.3
(†)	12.0	26.9	15.4	18.1	47.4	55.5	9.22	19.9	20.4	11.4	8.68	7.83

CAL YR 1970 TOTAL 66,562.1 MEAN 182 MAX 1,120 MIN 9.4 MEAN‡ 197 CFSM‡ 1.59 IN‡ 21.59
WTR YR 1971 TOTAL 55,705.2 MEAN 153 MAX 751 MIN 5.3 MEAN‡ 174 CFSM‡ 1.40 IN‡ 19.00

† Diversions, in cubic feet per second, for municipal supply of Reading, Lynn, Peabody, Danvers, Salem, and Beverly; records furnished by municipalities.
‡ Adjusted for diversions.

01102500 Aberjona River at Winchester, Mass.

LOCATION.--Lat 42°26'50", long 71°08'22", Middlesex County, on left bank at Winchester, 0.5 mile upstream from head of Mystic Lakes.

DRAINAGE AREA.--23.3 sq mi (excludes 1.4 sq mi drained by Winchester Reservoirs).

PERIOD OF RECORD.--April 1939 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is at mean sea level.

AVERAGE DISCHARGE.--32 years, 26.7 cfs.

EXTREMES.--Current year: Maximum discharge, 134 cfs Feb. 13 (gage height, 11.77 ft); minimum, 0.46 cfs Aug. 25, 26; minimum daily, 0.51 cfs Aug. 25, 26, Sept. 25.

Period of record: Maximum discharge, 835 cfs Aug. 19, 1955 (gage height, 13.64 ft), from rating curve extended above 330 cfs; maximum gage height, 14.43 ft Oct. 7, 1962 (backwater from Upper Mystic Lake); no flow for part of Oct. 10, 12, 1950, caused by pumpage from gage pool; minimum daily discharge, 0.25 cfs Oct. 10, 1950.

Maximum discharge since 1886, that of Aug. 19, 1955.

REMARKS.--Records good. Flow affected by diversions for industrial use and for municipal supply of Woburn and Winchester, and by wastage and leakage from Winchester Reservoirs. Some regulation by Winchester at dam 1,800 ft upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.0	5.3	8.4	7.3	90	36	32	17	8.8	21	.93
2	2.5	13	7.3	10	5.6	97	35	28	12	10	11	.70
3	5.6	24	8.1	9.9	5.0	97	40	38	19	5.3	5.0	.77
4	12	12	29	10	4.5	105	31	39	20	4.0	31	.70
5	5.0	45	15	18	5.9	84	26	36	20	3.4	13	.70
6	4.5	15	14	15	10	75	32	26	12	3.0	8.1	.57
7	11	10	11	14	8.1	86	67	22	8.8	2.6	4.8	.57
8	4.0	9.5	9.9	13	12	84	47	20	23	1.9	3.2	.63
9	3.0	13	9.2	11	33	71	39	29	44	2.0	2.3	.93
10	.70	2.5	9.9	11	18	59	42	43	25	2.1	1.9	.77
11	.63	11	8.4	9.9	17	60	38	35	17	2.1	3.6	.85
12	1.6	19	7.7	9.9	19	60	37	34	13	1.7	9.9	3.0
13	10	11	7.7	9.5	50	58	34	63	12	1.4	3.6	2.5
14	3.2	17	8.4	9.2	71	62	33	68	10	20	2.6	29
15	1.7	23	7.3	9.5	48	69	28	48	9.9	6.2	2.3	7.7
16	2.3	20	6.6	8.8	47	97	26	64	9.9	3.6	1.6	6.9
17	4.0	15	45	8.1	48	117	24	60	11	4.5	1.1	3.0
18	3.2	11	35	7.3	45	101	28	54	13	8.1	1.0	1.6
19	2.8	9.2	23	6.6	46	86	29	38	5.3	8.1	1.1	1.1
20	2.1	4.3	24	5.9	58	107	27	36	6.9	8.4	2.0	.93
21	9.2	23	23	5.0	56	92	31	31	7.7	4.5	1.0	2.1
22	2.8	15	20	5.6	48	77	28	35	18	3.0	.70	1.2
23	30	14	15	5.9	64	69	22	36	14	4.8	.77	1.1
24	31	12	10	5.6	58	63	23	20	9.9	.57	.63	1.2
25	21	9.2	11	6.6	54	56	20	21	8.4	1.2	.51	.51
26	16	6.6	12	14	47	52	20	17	18	1.4	.51	.57
27	9.5	6.9	11	10	69	56	21	17	11	1.0	6.9	.63
28	7.3	6.9	10	9.9	84	47	20	15	7.7	1.0	5.6	1.1
29	5.9	6.9	10	9.9	------	44	42	15	6.2	1.3	2.0	1.3
30	3.4	6.6	15	10	------	41	44	14	6.2	29	1.3	4.0
31	.63	------	9.9	8.4	------	39	------	14	------	30	.85	------
TOTAL	218.56	394.6	438.7	295.9	1,038.4	2,301	970	1,048	415.9	184.97	150.87	77.56
MEAN	7.05	13.2	14.2	9.55	37.1	74.2	32.3	33.8	13.9	5.97	4.87	2.59
MAX	31	45	45	18	84	117	67	68	44	30	31	29
MIN	.63	2.5	5.3	5.0	4.5	39	20	14	5.3	.57	.51	.51

CAL YR 1970 TOTAL 10,349.93 MEAN 28.4 MAX 271 MIN .56
WTR YR 1971 TOTAL 7,534.46 MEAN 20.6 MAX 117 MIN .51

PEAK DISCHARGE (BASE, 170 CFS).--No peak above base.

01103500 Charles River at Charles River Village, Mass.

LOCATION.--Lat 42°15'22", long 71°15'38", Norfolk County, on right bank 0.3 mile downstream from highway bridge at Charles River Village, 0.8 mile downstream from Noanet Brook, and 1.3 miles northeast of Dover.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 89.76 ft above mean sea level.

AVERAGE DISCHARGE.--34 years, 294 cfs (21.70 inches per year), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 981 cfs Mar. 4 (gage height, 3.77 ft); minimum, 12 cfs Aug. 26, 27.

Period of record: Maximum discharge, 3,220 cfs Aug. 23, 1955 (gage height, 9.24 ft) and Mar. 22, 1968 (gage height, 8.72 ft); minimum, 0.5 cfs Oct. 24, 1952 (caused by unusual regulation); minimum daily, 0.9 cfs Oct. 24, 1952.

Maximum discharge since flood of 1886, that of August 1955 and March 1968. Flood of March 1936 reached a discharge of 3,170 cfs, by computation of flow over dam at site 0.2 mile above station.

REMARKS.--Records good. Diversions above station for municipal supply of Wellesley and Needham. Occasional diversion since 1951 from Sudbury River basin to Charles River; no diversion during year. Chemical analyses of miscellaneous samples for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	80	152	192	170	793	500	325	223	56	60	31
2	37	78	150	186	160	869	471	336	217	67	63	28
3	43	155	144	181	150	893	461	364	216	61	57	25
4	50	195	180	179	135	933	436	387	216	57	52	23
5	43	243	205	198	128	927	424	403	204	54	45	20
6	42	235	228	217	131	907	416	413	193	51	40	17
7	42	219	216	230	139	895	470	405	179	49	36	18
8	37	196	189	234	163	893	511	383	173	44	33	18
9	37	175	168	225	212	837	548	373	190	41	32	17
10	36	159	154	209	238	796	574	394	183	38	29	14
11	33	155	145	199	251	767	570	403	178	35	30	15
12	32	146	138	190	259	723	560	415	164	33	34	20
13	29	145	124	182	308	684	530	448	150	32	28	23
14	29	174	155	168	475	662	510	478	138	34	24	44
15	32	222	147	165	494	656	471	475	130	30	23	51
16	43	266	135	155	568	709	443	506	121	29	23	64
17	50	275	188	145	594	749	416	560	112	30	23	66
18	54	262	290	140	612	798	388	569	102	32	21	56
19	59	239	328	135	608	829	375	580	92	35	20	46
20	48	219	367	135	610	798	362	572	86	44	21	37
21	44	250	383	141	609	885	356	566	81	46	19	36
22	41	253	369	128	591	901	355	503	79	46	18	31
23	65	260	341	120	622	890	350	458	76	47	18	29
24	136	246	333	120	633	860	327	416	74	44	15	26
25	167	222	307	121	616	814	303	375	70	38	14	24
26	177	180	287	156	614	760	280	332	71	36	13	26
27	160	168	266	163	658	779	267	293	65	33	21	22
28	138	190	248	175	711	669	260	267	57	32	32	22
29	118	193	231	170	------	674	278	243	55	32	29	22
30	103	193	215	176	------	571	305	230	52	51	33	20
31	89	------	200	179	------	531	------	229	------	60	35	------
TOTAL	2,062	5,998	6,979	5,290	11,438	24,456	12,526	12,675	3,947	1,317	939	885
MEAN	66.5	200	225	171	409	789	418	409	132	42.5	30.3	29.5
MAX	177	275	383	234	711	933	574	580	223	67	63	66
MIN	29	78	124	120	128	531	260	229	52	29	13	14
MEAN†	72.0	201	230	176	415	786	425	416	138	50.0	37.3	36.2
CFSM†	.39	1.09	1.25	.96	2.26	4.27	2.31	2.26	.75	.27	.20	.20
IN.†	.45	1.22	1.44	1.11	2.35	4.92	2.58	2.61	.84	.31	.23	.22

CAL YR 1970 TOTAL 117,385 MEAN 322 MAX 1,560 MIN 27 MEAN† 330 CFSM† 1.79 IN† 24.21
WTR YR 1971 TOTAL 88,487 MEAN 242 MAX 933 MIN 13 MEAN† 260 CFSM† 1.41 IN† 19.16

† Adjusted for diversions for municipal supply of Wellesley and Needham. Records of diversion furnished by municipalities and Water Division of Metropolitan District Commission.

01104000 Mother Brook at Dedham, Mass.

LOCATION.--Lat 42°15'18", long 71°09'53", Norfolk County, on right bank 100 ft upstream from Washington Street Bridge at Dedham and 0.4 mile downstream from point of diversion from Charles River.

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Concrete control since June 10, 1960. Datum of gage is 0.03 ft below mean sea level. Dec. 9, 1931, to June 9, 1960, nonrecording gage at site 200 ft upstream at same datum.

AVERAGE DISCHARGE.--40 years, 77.5 cfs.

EXTREMES.--Current year: Maximum discharge, 402 cfs Mar. 5 (gage height, 83.75 ft); minimum, 0.12 cfs Aug. 26, 27.
Period of record: Maximum discharge, 1,040 cfs Mar. 21, 1968 (gage height, 87.18 ft); maximum gage height, 92.90 ft Aug. 24, 1955, from graph based on gage readings; no flow at times.

REMARKS.--Records good except those for period of no gage-height record and period of backwater from scum, which are fair. Mother Brook is a diversion from Charles River to Neponset River through Dedham and Hyde Park.

REVISIONS (WATER YEARS).--WSP 1301: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	9.0	25	47	33	290	183	69	44	3.7	3.3	1.0
2	2.9	10	31	44	25	298	166	69	40	4.8	2.9	.77
3	2.8	20	40	42	22	307	164	81	41	4.1	2.3	.77
4	5.1	35	46	41	22	339	156	89	44	3.5	4.1	.88
5	4.2	80	56	51	22	302	145	92	40	2.7	2.3	.67
6	3.6	60	80	57	26	344	139	95	29	2.5	1.7	.48
7	3.5	45	60	59	29	326	177	97	22	2.5	1.3	.40
8	3.3	27	40	59	41	320	183	80	23	2.3	1.1	.26
9	3.1	16	29	57	67	302	174	85	28	2.0	1.0	.26
10	3.0	13	26	53	69	283	179	95	25	1.7	.88	.32
11	2.8	12	25	49	69	270	184	90	22	1.6	38	.20
12	2.6	18	25	45	70	266	179	87	18	1.7	25	.67
13	2.6	27	21	40	97	254	169	100	16	1.4	14	.48
14	2.3	40	26	37	179	239	163	148	14	1.9	15	5.4
15	3.1	55	27	33	166	228	155	144	13	1.7	11	3.5
16	6.7	65	23	31	170	220	136	198	12	1.3	5.7	4.3
17	6.9	60	58	21	180	257	123	190	10	1.3	.57	4.5
18	6.2	48	112	18	188	285	113	169	8.7	1.6	.40	4.3
19	5.6	35	109	16	192	294	105	146	6.9	2.5	.32	3.3
20	3.6	40	117	15	200	333	97	145	5.1	3.5	.77	2.3
21	3.0	63	120	15	203	341	91	139	6.8	2.9	.28	2.5
22	2.8	58	111	16	195	336	92	131	5.4	2.3	.24	2.2
23	11	62	97	18	210	331	92	115	4.8	2.0	.32	1.7
24	22	54	85	18	220	323	76	97	4.3	1.9	.28	1.4
25	21	45	86	19	214	309	70	83	4.1	1.9	.24	1.0
26	29	32	84	24	214	287	66	72	5.4	1.4	.16	.67
27	24	28	77	32	233	271	60	77	4.8	1.4	.18	.57
28	23	27	70	29	266	252	55	69	3.7	1.4	.40	.68
29	19	26	63	24	------	233	64	52	3.1	1.3	1.7	.60
30	15	25	57	33	------	217	67	50	3.1	4.1	1.5	.60
31	10	------	50	37	------	201	------	47	------	5.1	.77	------
TOTAL	252.9	1,135.0	1,876	1,076	3,622	8,858	3,821	3,169	505.2	73.8	138.71	46.00
MEAN	8.16	37.8	60.5	34.7	129	286	127	102	16.8	2.38	4.46	1.54
MAX	29	80	120	59	266	344	186	198	44	5.1	38	5.4
MIN	2.3	9.0	21	15	22	201	55	47	3.1	1.3	.16	.20

CAL YR 1970 TOTAL 29,833.90 MEAN 81.7 MAX 528 MIN 1.3
WTR YR 1971 TOTAL 24,553.19 MEAN 67.3 MAX 344 MIN .16

NOTE.--No gage-height record Oct. 23 to Dec. 11. Backwater from scum May 17 to Sept. 30.

01104200 Charles River at Wellesley, Mass.

LOCATION.--Lat 42°18'59", long 71°13'42", Norfolk County, on left bank at east limits of Wellesley, 30 ft upstream from a horseshoe-shaped dam and 50 ft upstream from bridge on State Highway 9.

DRAINAGE AREA.--211 sq mi.

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 67.92 ft above mean sea level.

AVERAGE DISCHARGE.--12 years, 320 cfs (20.60 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 820 cfs Mar. 5 (gage height, 4.48 ft); minimum, 5.8 cfs Aug. 16; minimum daily, 7.6 cfs Aug. 16.
Period of record: Maximum discharge, 2,410 cfs Mar. 21, 1966 (gage height, 6.20 ft); no flow Sept. 15, Oct. 6, 1959 (caused by closing of gates at dam at gage); minimum daily discharge, 1.0 cfs Aug. 24, 31, Sept. 8, 1965.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow affected by diversions for municipal supplies of Wellesley, Needham, and Dedham, by diversion to Mother Brook (see sta. 01104000), and at times by diversion from Sudbury River basin. No diversion from Sudbury River basin during year. Occasional regulation at dam 0.2 mile above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	83	148	180	162	606	397	287	210	45	65	29
2	39	80	141	176	155	645	377	292	205	60	63	31
3	41	180	128	169	141	684	367	310	200	51	63	29
4	51	176	162	166	125	718	347	328	195	49	56	27
5	47	215	180	187	119	718	328	333	190	47	45	24
6	45	210	183	198	128	746	324	342	185	41	40	23
7	45	205	183	202	128	718	367	342	180	37	35	21
8	45	200	176	202	148	711	413	342	175	37	31	21
9	39	185	169	198	209	677	424	337	190	31	28	23
10	37	170	155	195	206	651	424	367	185	30	27	22
11	37	160	145	183	206	625	424	367	175	30	40	22
12	33	150	135	176	206	606	419	362	165	26	50	22
13	31	140	122	166	253	573	419	387	155	28	28	27
14	31	160	138	159	392	554	419	424	145	25	17	65
15	37	200	141	148	367	536	392	430	135	28	15	60
16	58	240	128	141	367	548	377	430	129	26	7.6	57
17	53	257	209	140	382	548	362	440	120	25	13	62
18	53	253	314	140	397	560	342	460	110	26	16	55
19	53	241	310	135	413	599	337	500	100	33	19	49
20	51	213	319	135	429	698	324	490	94	51	26	41
21	51	225	324	130	440	656	314	470	90	41	26	37
22	47	233	310	125	429	651	305	440	90	41	23	39
23	83	237	283	120	451	645	310	410	84	37	20	35
24	141	229	262	120	473	625	314	370	80	37	21	27
25	141	209	262	120	462	606	292	340	77	39	20	27
26	155	187	262	138	467	573	275	310	72	35	24	29
27	152	166	249	149	512	542	260	280	64	33	17	25
28	135	155	229	159	560	506	257	250	58	33	16	24
29	115	152	217	166	------	473	275	230	54	31	23	22
30	103	140	206	166	------	440	283	225	51	51	26	25
31	92	------	191	162	------	408	------	220	------	92	27	------
TOTAL	2,082	5,659	6,381	4,967	8,727	18,846	10,476	11,095	3,961	1,196	928.6	996
MEAN	67.2	189	206	160	312	608	349	358	132	38.6	29.9	33.2
MAX	155	257	324	202	560	746	424	500	210	92	65	65
MIN	31	80	122	120	119	408	257	220	51	25	7.6	21
MEAN†	86.0	236	276	205	452	904	488	472	164	56.3	48.6	47.7
CFSM†	.41	1.12	1.31	.97	2.14	4.28	2.31	2.24	.78	.27	.23	.23
IN.†	.47	1.25	1.51	1.12	2.23	4.94	2.58	2.58	.87	.31	.27	.25

CAL YR 1970 TOTAL 97,770 MEAN 268 MAX 1,120 MIN 31 MEAN† 370 CFSM† 1.75 IN† 23.82
WTR YR 1971 TOTAL 75,292.6 MEAN 206 MAX 746 MIN 7.6 MEAN† 286 CFSM† 1.36 IN† 18.37

† Adjusted for diversion to Mother Brook and diversions for municipal supplies of Wellesley, Needham, and Dedham. Records of diversion furnished by Water Division of Metropolitan District Commission and by municipalities.

NOTE.--No gage-height record May 13 to July 2.

01104500 Charles River at Waltham, Mass.

LOCATION.--Lat 42°22'20", long 71°14'03", Middlesex County, on right bank 800 ft downstream from Moody Street Bridge in Waltham and 0.3 mile upstream from Beaver Brook.

DRAINAGE AREA.--227 sq mi, excludes 23.6 sq mi drained by Stony Brook, from which flow is diverted for municipal supply of Cambridge.

PERIOD OF RECORD.--October 1903 to October 1909 (figures of average weekly discharge, equivalent to records of unadjusted discharge at present site), August 1931 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.02 ft above mean sea level. Prior to July 10, 1904, at dam 700 ft upstream and July 10, 1904, to Oct. 2, 1909, at dam 0.7 mile downstream at different datums; discharge computed from flow over dam and through wheels and gates of Boston Manufacturing Co. and Waltham Bleachery, respectively.

AVERAGE DISCHARGE.--40 years (1931-71), 370 cfs (22.13 inches per year), adjusted for diversion, wastage, and leakage.

EXTREMES.--Current year: Maximum discharge, 1,110 cfs Mar. 3 (gage height, 3.38 ft); minimum, 18 cfs Aug. 29; minimum daily, 20 cfs Aug. 17, 26, 29.

Period of record: Maximum discharge, 2,670 cfs Mar. 22, 1968 (gage height, 5.15 ft); maximum gage height, 5.39 ft Mar. 22, 1968 (backwater from debris); minimum discharge, 0.1 cfs Oct. 1 12, 1943; minimum daily, 0.2 cfs Oct. 4, 1943.

Maximum discharge since 1886, that of Mar. 22, 1968.

REMARKS.--Records good. Flow affected at times by wastage from Stony Brook Reservoir, wastage and leakage from Norumbega Reservoir, diversion at times prior to 1963 from Lake Cochituate and at times since 1951 from Sudbury River basin, diversion to Mother Brook (see sta. 01104000), and diversions for municipal supplies of Wellesley, Needham, and Dedham, all above station. Some regulation by mills upstream. No diversion from Sudbury River basin during year. Low flow completely regulated by Boston Edison Co. powerplant above station prior to 1954.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 851: Drainage area. WSP 971: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	103	160	210	162	628	430	306	232	72	86	31
2	50	103	162	200	157	666	410	314	224	91	70	32
3	53	229	146	195	149	782	410	359	197	82	67	31
4	72	213	197	190	136	782	382	380	214	75	68	29
5	61	334	197	210	131	746	359	390	209	70	65	27
6	56	197	210	220	144	794	355	390	200	66	58	24
7	94	226	203	230	144	776	440	380	193	62	50	25
8	94	213	194	230	154	776	490	370	190	57	45	27
9	52	196	191	225	233	728	505	360	216	56	42	31
10	50	182	182	220	229	694	510	390	197	51	40	28
11	50	182	168	210	216	683	500	400	187	47	51	22
12	48	168	169	200	220	661	495	410	178	43	66	31
13	65	157	151	190	247	628	480	450	167	43	47	33
14	49	191	156	179	465	617	455	465	155	47	36	77
15	50	236	162	170	415	611	420	448	143	43	29	71
16	71	276	194	165	386	666	405	468	135	41	24	62
17	71	280	272	157	391	699	391	539	125	41	20	65
18	65	276	[illegible]	149	415	699	368	529	119	45	23	66
19	63	268	[illegible]	144	435	722	382	525	112	46	35	60
20	62	267	[illegible]	139	460	837	366	521	106	45	39	92
21	60	[illegible]	[illegible]	131	475	818	350	507	104	62	34	[illegible]
22	99	[illegible]	[illegible]	126	450	796	334	486	109	57	29	[illegible]
23	[illegible]	[illegible]	[illegible]	126	485	798	326	450	98	56	26	41
24	[illegible]	[illegible]	[illegible]	121	515	[illegible]	326	417	93	54	22	[illegible]
25	[illegible]	[illegible]	[illegible]	126	495	[illegible]	310	387	[illegible]	[illegible]	21	[illegible]
26	[illegible]	[illegible]	[illegible]	144	485	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	162	535	[illegible]	[illegible]	[illegible]	87	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	160	595	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	162	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	170	------	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	------	[illegible]	170	------	[illegible]	------	[illegible]	------	106	[illegible]	------
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

[illegible]

01105000 Neponset River at Norwood, Mass.

LOCATION.--Lat 42°10'39", long 71°12'05", Norfolk County, on left bank 200 ft upstream from Pleasant Street Bridge, 200 ft downstream from Penn Central Railroad bridge, 0.45 mile downstream from Hawes Brook, and 0.5 mile south of Norwood.

DRAINAGE AREA.--35.2 sq mi.

PERIOD OF RECORD.--October 1939 to current year. October 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 44.04 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--32 years, 51.6 cfs.

EXTREMES.--Current year: Maximum discharge, 298 cfs Feb. 13 (gage height, 7.75 ft, at upstream side of railroad bridge); minimum daily, 2.8 cfs July 13.

Period of record: Maximum discharge, 1,490 cfs Aug. 19, 1955 (gage height, 14.65 ft, from floodmarks); minimum daily, 1.4 cfs Oct. 20, 1963. Maximum discharge since 1886, that of Aug. 19, 1955. Flood of July 24, 1938, reached a stage of 11.05 ft, from floodmarks.

REMARKS.--Records good. Flow regulated by mills and reservoirs above station. Several diversions above station for municipal and industrial use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	5.0	16	38	26	158	74	64	41	5.8	17	6.3
2	6.3	16	13	40	29	155	74	59	37	6.7	12	6.3
3	9.2	117	20	41	20	141	83	66	44	5.4	9.7	7.1
4	18	80	43	33	15	179	83	77	43	6.7	9.7	7.1
5	13	94	34	48	20	173	73	70	36	6.3	8.4	7.5
6	12	57	34	58	30	158	64	58	31	5.4	7.1	8.4
7	10	34	26	47	39	149	118	54	25	4.4	5.8	8.4
8	8.4	28	22	40	62	153	133	47	27	4.4	5.0	7.1
9	8.4	21	18	40	118	136	126	73	40	4.0	5.0	12
10	8.8	14	22	37	90	120	112	96	32	3.4	5.0	5.4
11	8.8	21	23	33	73	114	102	80	24	3.1	10	5.4
12	11	22	23	29	68	109	95	68	26	3.1	11	9.7
13	12	23	29	28	114	112	79	77	15	2.8	9.7	15
14	8.8	51	27	29	233	114	78	86	17	3.4	9.2	24
15	9.2	69	29	28	170	120	73	73	14	3.7	7.9	16
16	17	65	24	25	126	144	64	96	12	3.4	10	7.9
17	28	45	99	22	173	157	69	130	11	4.4	9.2	7.5
18	18	38	111	20	57	142	73	117	12	7.9	9.2	7.1
19	15	29	100	18	90	139	69	99	7.5	15	7.5	8.8
20	11	27	96	18	115	172	66	82	5.0	22	12	8.8
21	13	47	83	16	117	160	69	68	8.4	12	6.3	8.4
22	10	41	68	16	99	153	60	69	5.8	7.1	6.3	6.3
23	73	34	63	18	115	141	56	69	5.0	5.8	5.4	6.3
24	102	27	66	21	109	134	49	68	5.0	4.7	5.0	5.8
25	58	23	65	21	93	114	49	51	4.4	5.0	5.4	5.8
26	30	28	60	29	91	105	46	46	4.7	6.3	5.4	5.9
27	20	29	59	37	133	96	42	44	5.0	7.5	11	6.4
28	15	26	57	33	148	88	43	45	5.8	5.6	15	6.5
29	11	22	42	26	------	83	60	36	3.7	4.7	10	5.8
30	9.2	20	39	29	------	88	69	41	3.4	16	10	4.7
31	20	------	37	30	------	79	------	49	------	41	7.5	------
TOTAL	602.5	1,153.0	1,448	948	2,561	4,090	2,243	2,156	550.7	237.0	267.7	247.7
MEAN	19.4	38.4	46.7	30.6	91.5	132	74.8	69.5	18.4	7.64	8.64	8.26
MAX	102	117	111	58	233	179	133	130	44	41	17	24
MIN	6.3	5.0	13	16	15	79	42	36	3.4	2.8	5.0	4.7

CAL YR 1970 TOTAL 22,107.9 MEAN 60.6 MAX 576 MIN 5.0
WTR YR 1971 TOTAL 16,491.6 MEAN 45.2 MAX 233 MIN 2.8

01105500 East Branch Neponset River at Canton, Mass.

LOCATION.--Lat 42°09'16", long 71°08'47", Norfolk County, on right bank 100 ft downstream from Washington Street Bridge at Canton, 200 ft downstream from Forge Pond Dam, and 900 ft downstream from Massapoag Brook.

DRAINAGE AREA.--27.2 sq mi.

PERIOD OF RECORD.--October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.18 ft above mean sea level (Massachusetts Department of Public Works bench mark).

AVERAGE DISCHARGE.--19 years, 50.1 cfs.

EXTREMES.--Current year: Maximum discharge, 408 cfs Feb. 14 (gage height, 3.83 ft); minimum daily, 2.0 cfs Oct. 9, July 11.
Period of record: Maximum discharge, 1,790 cfs Aug. 19, 1955 (gage height, 8.18 ft), from rating curve extended above 690 cfs; minimum daily, 0.6 cfs July 7, Sept. 1, 1957.

REMARKS.--Records good except those for period of shifting control, which are fair. Flow regulated by Forge, Bolivar, Massapoag, and Reservoir Ponds, and other ponds above station. Diversion above station for municipal supply of Canton and Stoughton.

REVISIONS.--WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	11	28	49	33	121	59	41	61	6.3	5.4	6.0
2	7.3	17	25	51	29	108	53	34	45	9.2	4.9	6.0
3	5.4	111	28	49	25	102	58	31	33	6.7	4.5	7.8
4	7.6	89	49	48	22	152	55	74	33	5.6	4.2	9.2
5	9.2	79	47	74	26	155	50	51	28	4.9	4.0	7.1
6	5.4	65	39	82	45	132	50	41	23	4.4	3.8	6.3
7	7.3	52	30	65	43	128	96	40	21	4.0	3.4	11
8	8.7	44	24	56	58	133	109	34	16	5.0	2.9	16
9	2.0	39	20	43	109	119	75	60	35	3.5	4.2	25
10	4.7	36	24	46	56	108	53	82	30	2.9	5.0	22
11	4.9	37	32	45	67	105	52	79	26	2.0	5.4	17
12	5.0	35	40	45	57	108	49	67	21	2.6	4.2	17
13	8.9	34	35	41	112	105	49	76	20	5.2	3.8	28
14	6.3	68	30	39	296	105	38	47	16	3.8	4.2	21
15	8.7	68	28	39	154	103	39	42	15	3.8	4.4	18
16	28	70	29	37	119	111	41	61	15	9.2	4.5	14
17	29	58	70	33	107	108	47	118	13	4.2	4.2	10
18	20	52	120	32	105	101	46	89	9.7	7.9	4.5	5.8
19	14	45	96	28	107	99	47	62	17	4.0	4.9	6.3
20	[illegible]	44	97	25	108	141	47	57	9.2	8.9	7.8	11
21	7.8	53	78	23	109	114	48	65	10	6.7	4.7	12
22	10	47	68	26	99	96	43	63	9.7	5.0	3.2	9.7
23	37	44	67	27	120	87	39	64	10	4.2	5.2	8.1
24	67	40	73	27	120	80	37	57	10	3.2	6.0	8.7
25	37	33	73	27	105	76	38	64	9.7	2.5	5.9	8.5
26	33	32	69	30	90	71	38	63	9.2	2.6	5.8	6.0
27	24	29	65	31	123	70	36	56	7.8	3.1	37	8.6
28	19	28	61	30	130	67	35	41	6.9	3.4	8.4	9.7
29	18	29	57	33	------	68	51	44	5.8	3.1	3.6	9.7
30	17	38	53	38	------	99	58	65	6.0	5.8	5.4	10
31	18	------	50	37	------	61	------	69	------	7.3	6.3	------
TOTAL	484.3	1,426	1,992	1,296	2,637	3,190	1,536	1,836	572.0	146.0	181.4	352.2
MEAN	15.6	47.5	64.3	41.8	93.5	103	51.2	59.2	19.1	4.71	5.85	11.7
MAX	67	111	120	82	296	155	109	118	61	9.2	37	28
MIN	2.0	11	20	23	22	61	35	31	5.8	2.0	2.9	5.8

CAL YR 1970 TOTAL 18,590.1 MEAN 50.9 MAX 301 MIN 2.0
WTR YR 1971 TOTAL 15,648.9 MEAN 42.9 MAX 296 MIN 2.0

NOTE.--Shifting-control method used May 3 to Sept. 30.

WEYMOUTH BACK RIVER BASIN

01105600 Old Swamp River near South Weymouth, Mass.

LOCATION.--Lat 42°11'25", long 70°56'43", Norfolk County, on left bank between divided lanes of State Highway 3 and 128, 100 ft downstream from unnamed tributary entering from left, 0.4 mile upstream from Whitmans Pond, and 1.2 miles north of South Weymouth.

DRAINAGE AREA.--4.29 sq mi.

PERIOD OF RECORD.--May 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 70 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 9.51 cfs (30.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 103 cfs Feb. 14 (gage height, 3.73 ft); maximum gage height, 5.35 ft Feb. 15 (ice jam); minimum discharge, 0.11 cfs Sept. 5, 6, 9, 10.

Period of record: Maximum discharge, 566 cfs Mar. 18, 1968 (gage height, 5.22 ft); maximum gage height, 5.35 ft Feb. 15, 1971 (ice jam); minimum discharge, 0.11 cfs Sept. 5, 6, 9, 10, 1971.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	1.7	3.7	5.6	4.1	24	6.2	9.0	8.0	1.2	2.5	.17
2	.73	5.6	3.6	5.6	3.7	18	6.2	7.0	6.5	1.9	1.5	.15
3	.73	31	3.4	4.8	3.5	15	8.7	13	6.0	1.0	.94	.14
4	1.9	19	7.3	4.8	4.0	33	8.4	15	5.7	.86	.78	.14
5	1.2	15	6.3	13	6.0	36	7.0	10	5.0	.78	.71	.12
6	.99	9.7	5.1	17	7.0	21	6.5	8.4	4.5	.64	.58	.11
7	.92	6.5	4.4	13	5.3	19	36	7.0	4.0	.53	.48	.14
8	.85	4.8	3.7	9.7	8.5	20	38	7.4	6.0	.43	.39	.12
9	.85	4.3	3.4	7.9	24	16	20	16	9.0	.39	.32	.12
10	.79	3.7	3.6	6.3	22	13	14	25	6.0	.39	.26	.14
11	.79	3.6	3.7	6.0	15	13	11	16	4.7	.39	.26	.15
12	.79	3.4	3.7	5.6	8.8	15	9.7	11	3.8	.35	.35	.94
13	.73	4.8	3.7	5.0	28	15	9.0	10	3.4	.32	.32	.43
14	.73	19	3.7	4.7	72	15	8.7	13	3.4	.48	.23	2.5
15	.73	18	3.7	4.4	39	16	7.7	9.7	3.3	.39	.21	.64
16	3.4	16	3.6	4.0	21	21	7.0	20	3.1	.32	.21	.53
17	4.0	11	25	3.7	15	18	7.0	39	2.9	.29	.21	.48
18	2.5	7.9	40	3.6	13	13	7.0	23	2.5	.43	.19	.48
19	1.6	6.3	25	3.5	13	13	7.0	14	2.2	2.3	.15	.35
20	1.3	5.6	16	3.4	16	23	6.7	10	2.0	2.9	1.2	.32
21	1.2	9.1	13	3.4	18	18	6.2	9.0	1.6	.94	.32	.32
22	1.1	7.3	10	3.6	13	13	5.7	9.0	1.6	.70	.23	.29
23	10	5.8	8.2	3.8	22	11	5.5	8.0	1.5	.64	.23	.23
24	10	5.1	9.7	3.6	25	9.7	5.2	7.0	1.5	.50	.19	.21
25	6.3	4.6	10	3.4	18	8.7	6.2	6.5	1.4	.48	.15	.19
26	4.6	4.3	9.1	6.0	13	8.4	5.7	6.0	1.2	.48	.14	.19
27	3.4	3.9	8.2	7.0	23	8.0	5.7	5.7	.96	1.4	1.0	.19
28	2.7	3.7	7.6	6.0	31	7.4	5.5	6.2	.94	.71	.70	.17
29	2.5	3.7	6.5	4.8	---	7.4	11	6.0	.94	.40	.39	.17
30	2.2	3.7	6.3	5.0	---	7.0	12	9.3	.86	5.0	.23	.17
31	2.0	---	6.0	4.5	---	6.7	---	10	---	4.5	.19	---
TOTAL	72.32	248.1	267.2	182.7	491.9	482.3	300.5	366.2	104.40	32.20	15.56	10.30
MEAN	2.33	8.27	8.62	5.89	17.6	15.6	10.0	11.8	3.48	1.04	.50	.34
MAX	10	31	40	17	72	36	38	39	9.0	5.0	2.5	2.5
MIN	.73	1.7	3.4	3.4	3.5	6.7	5.2	5.7	.86	.29	.14	.11
CFSM	.54	1.93	2.01	1.37	4.10	3.64	2.33	2.75	.81	.24	.12	.08
IN.	.63	2.15	2.32	1.58	4.27	4.18	2.61	3.18	.91	.28	.14	.09

CAL YR 1970 TOTAL 2,793.92 MEAN 7.65 MAX 153 MIN .23 CFSM 1.78 IN 24.23
WTR YR 1971 TOTAL 2,573.68 MEAN 7.05 MAX 72 MIN .11 CFSM 1.64 IN 22.32

PEAK DISCHARGE (BASE, 90 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-14	0830	3.73	103				

01105660 Bound Brook near Cohasset, Mass.

LOCATION.--Lat 42°12'44", long 70°49'18", Norfolk County, on right bank at upstream side of culvert on Doane Street and 2.2 miles southwest of Cohasset.

DRAINAGE AREA.--4.88 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1969-70. July 1970 to September 1971 (discontinued).

GAGE.--Nonrecording gage, and since Dec. 11, 1970, crest-stage gage. Altitude of gage is 45 ft (from topographic map).

EXTREMES.--July to September 1970: Maximum discharge observed, 2.4 cfs Aug. 21 (gage height, 0.95 ft); minimum, 0.08 cfs Aug. 16.
Water year 1971: Maximum discharge, 63 cfs Feb. 14 (gage height, 3.01 ft); minimum, 0.01 cfs Sept. 21-30.

REMARKS.--Records fair. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY TO SEPTEMBER 1970

DAY	AUG.	SEPT.	DAY	AUG.	SEPT.	DAY	AUG.	SEPT.	DAY	JULY	AUG.	SEPT.
1	.30	.71	9	.11	.25	17	.15	.71	25	-	1.2	.50
2	.27	.32	10	.15	.40	18	.25	.50	26	-	1.1	.71
3	.25	.32	11	2.0	.83	19	.25	.40	27	-	1.1	.60
4	.25	.32	12	.71	.83	20	.71	.32	28	-	1.1	.50
5	.15	.40	13	.32	.83	21	1.8	.19	29	-	.83	.50
6	.15	.32	14	.25	.96	22	1.6	.15	30	-	.83	.60
7	.11	.25	15	.15	.96	23	1.2	.08	31	.32	.71	-
8	.11	.19	16	.08	.83	24	1.4	.11				
TOTAL										-	19.59	14.59
MEAN										-	.63	.49
MAX										-	2.0	.96
MIN										-	.08	.08
CFSM										-	.13	.10
IN.										-	.15	.11

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	1.1	6.3	14	9.0	30	7.7	20	8.4	.50	.60	.08
2	.50	1.2	5.8	15	8.0	30	7.7	19	7.7	.71	.40	.08
3	.50	20	5.6	16	7.0	24	8.4	19	7.7	.71	.32	.06
4	.60	19	7.5	16	7.0	29	9.4	20	7.0	.60	.32	.04
5	.60	18	8.2	16	8.0	30	8.2	17	6.0	.40	.32	.04
6	.50	18	6.2	16	11	29	7.7	18	5.6	.40	.32	.03
7	.50	16	7.7	15	14	24	17	12	5.1	.32	.25	.02
8	.40	14	6.8	12	18	21	30	10	5.1	.25	.19	.02
9	.40	9.4	6.5	11	21	19	26	11	5.3	.25	.11	.02
10	.32	7.5	7.0	10	22	18	26	13	5.3	.15	.15	.03
11	.25	7.2	7.2	9.6	22	18	26	19	4.8	.11	.15	.03
12	.32	6.8	7.7	9.4	23	18	26	18	4.8	.11	.15	.03
13	.50	6.3	8.2	9.2	31	18	24	14	4.8	.11	.15	.03
14	.50	6.8	7.2	8.6	59	18	13	13	4.8	.08	.15	.03
15	.40	12	7.0	8.2	45	18	10	13	4.4	.08	.19	.03
16	.40	11	6.3	7.6	35	26	9.4	13	4.1	.08	.19	.03
17	.40	10	19	7.2	26	27	8.4	20	3.9	.08	.19	.03
18	.50	9.2	43	6.8	21	20	7.7	13	3.9	.09	.15	.03
19	.50	8.4	35	6.6	19	19	7.2	11	3.4	.20	.11	.02
20	.32	8.0	28	6.4	20	18	6.5	9.4	2.8	.40	.11	.02
21	.40	8.2	23	6.2	20	18	6.3	8.9	1.6	.90	.11	.01
22	.40	8.2	20	6.6	20	18	5.6	8.7	1.4	.40	.08	.01
23	.83	8.2	18	7.0	23	18	5.1	8.7	1.2	.25	.06	.01
24	1.1	8.0	20	6.6	29	17	5.1	8.2	1.1	.17	.03	.01
25	1.1	7.7	19	6.3	30	15	5.0	7.5	1.1	.14	.03	.01
26	4.4	7.5	17	7.0	22	13	6.3	6.5	1.1	.14	.02	.01
27	4.0	7.2	16	11	21	11	5.3	6.5	.96	.17	.02	.01
28	3.4	7.0	14	12	21	10	5.3	5.8	.94	.19	.03	.01
29	1.8	7.0	15	12	------	9.0	8.2	4.8	.83	.15	.04	.01
30	1.6	6.8	19	11	------	8.2	18	4.8	.60	.30	.04	.01
31	1.2	------	14	10	------	7.8	------	6.2	------	1.0	.08	------
TOTAL	29.96	285.7	431.2	316.3	610.0	599.0	357.3	381.0	119.75	9.04	5.06	.80
MEAN	.97	9.52	13.9	10.2	21.8	19.3	11.9	12.3	3.99	.29	.16	.027
MAX	4.4	20	43	16	59	30	30	20	8.4	1.0	.60	.08
MIN	.25	1.1	5.6	6.2	7.0	7.8	5.0	4.8	.60	.08	.02	.01
CFSM	.20	1.95	2.85	2.09	4.47	3.96	2.44	2.52	.82	.06	.03	.006
IN.	.23	2.18	3.29	2.41	4.65	4.57	2.72	2.90	.91	.07	.04	.006

WTR YR 1971 TOTAL 3,142.57 MEAN 8.61 MAX 59 MIN .01 CFSM 1.76 IN 23.96

01105730 Indian Head River at Hanover, Mass.

LOCATION.--Lat 42°06'02", long 70°49'23", Plymouth County, on right bank at downstream side of Elm Street Bridge, 0.3 mile upstream from Iron Mine Brook, and 1 mile southwest of Hanover.

DRAINAGE AREA.--30.3 sq mi.

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.16 ft above mean sea level.

AVERAGE DISCHARGE.--5 years, 59.5 cfs (26.67 inches per year).

EXTREMES.--Current year: Maximum discharge, 478 cfs Feb. 14 (gage height, 4.76 ft); minimum, 0.18 cfs July 13, 14; minimum daily, 0.23 cfs July 14.
Period of record: Maximum discharge, 1,390 cfs Mar. 18, 1968 (gage height, 7.13 ft); minimum, 0.18 cfs July 13, 14, 1971; minimum daily, 0.23 cfs July 14, 1971.

REMARKS.--Records good. Some regulation by mills and by Wampatuck, Indian Head, Maquan, and other ponds above station. Records of chemical analysis and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	15	24	47	32	157	48	64	61	7.0	18	3.3
2	5.3	14	32	46	26	134	47	54	47	9.7	10	3.0
3	7.8	162	30	46	22	118	58	79	42	10	8.3	2.7
4	10	131	40	45	20	184	61	107	40	9.0	8.3	2.7
5	9.2	95	50	84	24	212	53	81	34	7.0	7.6	2.8
6	7.9	72	41	128	45	163	48	62	28	6.0	6.2	2.4
7	7.0	50	35	100	54	141	170	56	26	4.9	4.9	2.4
8	6.4	40	29	71	70	159	211	52	27	4.6	3.7	2.4
9	5.9	34	27	55	177	130	145	98	64	4.1	3.5	2.6
10	5.5	30	28	48	153	108	107	116	41	3.7	3.0	2.4
11	5.3	28	28	46	103	104	88	97	27	3.5	4.1	1.8
12	5.1	27	30	45	80	109	77	74	23	3.2	10	2.6
13	4.2	28	32	38	143	115	69	65	21	2.3	6.3	4.9
14	4.2	118	31	36	440	114	65	79	19	.23	5.4	12
15	7.5	116	30	35	258	114	58	58	18	.48	4.4	12
16	15	103	27	34	161	129	54	81	17	2.3	3.9	8.3
17	23	72	97	29	118	121	54	176	17	2.8	3.0	6.0
18	16	57	205	26	103	101	51	134	15	3.9	2.7	5.7
19	11	48	160	25	99	87	52	94	12	4.2	2.7	5.1
20	8.2	44	119	24	107	142	48	75	13	13	3.5	4.4
21	7.1	65	98	24	124	131	45	64	12	8.7	3.5	10
22	6.8	64	77	26	99	99	44	60	12	6.0	2.8	13
23	25	47	67	28	130	83	41	56	11	4.4	2.7	6.0
24	72	43	81	28	166	73	38	48	11	3.3	2.2	3.6
25	41	37	94	28	124	66	45	45	10	3.2	1.8	3.0
26	24	33	80	38	100	62	46	41	9.7	3.0	4.2	2.4
27	21	32	72	55	125	60	44	38	9.3	3.2	7.0	2.2
28	17	34	62	43	178	57	39	43	8.7	3.0	17	2.2
29	15	34	56	32	------	55	65	38	7.6	2.8	11	2.4
30	20	27	52	34	------	54	84	53	7.3	5.7	6.5	1.4
31	19	------	47	38	------	51	------	82	------	31	4.4	------
TOTAL	437.8	1,700	1,881	1,386	3,281	3,433	2,055	2,270	690.6	176.21	182.6	135.7
MEAN	14.1	56.7	60.7	44.7	117	111	68.5	73.2	23.0	5.68	5.89	4.52
MAX	72	162	205	128	440	212	211	176	64	31	18	13
MIN	4.2	14	24	24	20	51	38	38	7.3	.23	1.8	1.4
CFSM	.47	1.87	2.00	1.48	3.86	3.66	2.26	2.42	.76	.19	.19	.15
IN.	.54	2.09	2.31	1.70	4.03	4.21	2.52	2.79	.85	.22	.22	.17

CAL YR 1970 TOTAL 19,015.80 MEAN 52.1 MAX 590 MIN 2.7 CFSM 1.72 IN 23.35
WTR YR 1971 TOTAL 17,628.91 MEAN 48.3 MAX 440 MIN .23 CFSM 1.59 IN 21.64

PEAK DISCHARGE (BASE, 280 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-14	1445	4.76	478				
3-5	1015	4.63	439				

01105870 Jones River at Kingston, Mass.

LOCATION.--Lat 41°59'27", long 70°44'03", Plymouth County, on left bank 100 ft downstream from Elm Street Bridge, at Kingston, 2.8 miles upstream from mouth.

DRAINAGE AREA.--15.8 sq mi, excludes 4.09 sq mi above outlet of Silver Lake from which flow is diverted for municipal supply of Brockton and Whitman.

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 29.7 cfs.

EXTREMES.--Current year: Maximum discharge, 139 cfs Feb. 14 (gage height, 3.34 ft); maximum gage height, 3.90 ft Mar. 28 (backwater from tide); minimum daily discharge, 4.9 cfs July 12, 13, 17.

Period of record: Maximum discharge, 575 cfs Mar. 19, 1968 (gage height, 4.60 ft); maximum gage height, 4.65 ft May 26, 1967 (backwater from tide); minimum daily discharge, 0.59 cfs Aug. 11, 1966.

REMARKS.--Records good. Flow regulated by pond above station. Flow affected at times during springs of 1968-71 by wastage from 4.09 sq mi above outlet of Silver Lake. Surface flow may be affected by ground water that enters from or moves into adjacent basins. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	9.0	15	22	18	53	26	57	25	7.2	6.2	7.2
2	8.5	9.0	15	23	17	48	26	51	20	7.6	5.8	6.2
3	8.5	28	15	23	15	44	26	57	17	7.6	5.8	6.2
4	9.8	37	16	26	14	58	29	72	15	7.6	9.8	6.2
5	9.8	41	18	34	17	72	29	66	15	7.6	12	5.8
6	9.8	37	15	42	23	60	29	57	15	7.6	8.5	5.8
7	9.8	29	15	39	24	55	49	51	15	7.6	6.7	5.8
8	9.8	26	15	36	32	55	64	44	14	6.7	6.7	5.8
9	9.8	23	15	31	70	53	55	53	16	5.8	6.7	5.8
10	9.8	20	15	28	68	46	51	76	17	5.8	6.2	5.8
11	9.8	19	15	25	49	49	44	72	15	5.8	6.2	5.8
12	9.8	18	15	24	39	46	42	53	14	4.9	6.2	6.2
13	9.8	19	17	21	49	51	37	41	12	4.9	6.2	7.6
14	9.8	30	19	20	123	58	36	41	11	5.8	6.2	9.0
15	9.8	35	19	20	104	58	36	37	11	5.8	6.2	9.8
16	12	30	17	20	68	53	34	36	11	5.3	6.7	9.8
17	13	27	34	18	51	53	31	68	9.8	4.9	6.2	9.8
18	9.8	25	51	18	46	49	31	57	9.8	5.3	5.8	9.8
19	8.5	22	51	17	41	46	29	41	9.8	6.2	5.8	9.8
20	11	22	48	15	37	53	32	31	8.5	9.0	21	9.0
21	9.0	22	41	15	37	57	32	26	8.5	11	46	9.0
22	9.0	22	29	15	37	57	32	23	8.5	7.2	34	9.0
23	14	22	24	15	44	48	31	22	8.5	6.2	24	9.8
24	21	22	26	15	57	36	29	19	8.5	5.8	15	9.0
25	20	23	32	15	51	34	36	17	8.5	5.8	12	8.5
26	16	21	31	18	44	34	36	17	8.5	5.8	11	8.5
27	15	20	31	23	41	32	36	17	8.1	5.3	8.5	8.5
28	14	16	28	21	58	31	32	17	8.1	5.3	14	8.5
29	13	15	25	19	-------	29	39	16	7.2	5.3	12	8.5
30	12	15	25	19	-------	29	58	19	7.2	6.7	8.5	8.5
31	9.8	-------	23	20	-------	29	-------	26	-------	7.6	7.6	-------
TOTAL	350.2	704.0	755	697	1,274	1,476	1,097	1,280	362.5	201.0	343.5	235.0
MEAN	11.3	23.5	24.4	22.5	45.5	47.6	36.6	41.3	12.1	6.48	11.1	7.83
MAX	21	41	51	42	123	72	64	76	25	11	46	9.8
MIN	8.5	9.0	15	15	14	29	26	16	7.2	4.9	5.8	5.8

CAL YR 1970 TOTAL 11,176.2 MEAN 30.6 MAX 220 MIN 8.5
WTR YR 1971 TOTAL 8,775.2 MEAN 24.0 MAX 123 MIN 4.9

01105876 Eel River near Plymouth, Mass.

LOCATION.--Lat 41°56'30", long 70°37'23", Plymouth County, on right bank 10 ft upstream from bridge on State Highway 3A, 0.6 mile upstream from mouth, and 2.9 miles southeast of Plymouth.

DRAINAGE AREA.--14.7 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1969-70. December 1969 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is about 2 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 61 cfs Feb. 8 (gage height, 1.16 ft); maximum gage height not determined; minimum discharge, 17 cfs Sept. 11, 12.

Period of record: Maximum discharge, 61 cfs Feb. 8, 1971 (gage height, 1.16 ft); maximum gage height, 3.15 ft Dec. 27, 1969; minimum discharge, 17 cfs Sept. 11, 12, 1971.

REMARKS.--Records good. Surface flow may be affected by ground water that enters from or moves into adjacent basins. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	26	23	24	22	29	25	27	28	24	20	19
2	23	27	23	24	22	27	25	29	27	24	19	19
3	23	30	24	25	22	26	25	32	27	24	18	21
4	23	33	27	27	22	42	26	32	27	24	23	21
5	23	41	27	35	26	32	26	28	26	24	26	18
6	23	34	27	35	34	24	26	25	25	24	23	18
7	22	29	26	29	27	24	34	24	26	23	20	18
8	20	26	28	25	47	26	33	24	26	23	23	18
9	25	26	27	24	52	29	29	28	28	23	22	18
10	27	25	26	23	34	34	27	34	27	22	18	18
11	25	25	26	23	27	34	25	32	27	21	25	17
12	23	25	27	23	25	34	26	28	27	21	29	17
13	23	31	30	23	28	31	25	25	27	24	26	18
14	23	50	29	23	45	30	25	26	26	23	24	20
15	23	41	28	24	40	30	25	24	26	22	23	20
16	25	34	27	24	27	33	24	26	26	24	22	19
17	27	29	30	23	28	34	24	37	26	25	22	18
18	29	27	50	22	28	36	25	32	27	24	22	18
19	28	26	47	21	27	37	26	28	27	31	21	18
20	28	25	44	21	27	42	26	26	24	31	21	18
21	30	25	40	21	28	36	26	26	24	29	21	18
22	32	25	37	22	28	31	25	26	24	27	21	19
23	44	25	34	22	36	29	25	27	25	25	22	20
24	56	25	32	22	36	28	25	26	25	23	21	20
25	44	24	30	22	31	27	24	25	24	22	19	19
26	34	24	28	[illegible]	28	26	24	25	24	21	19	19
27	31	24	27	[illegible]	29	25	24	25	24	20	20	20
28	29	24	26	[illegible]	33	25	24	26	23	20	22	20
29	27	23	26	[illegible]	------	25	25	26	22	19	20	20
30	26	23	25	[illegible]	------	25	26	27	25	19	19	19
31	26	------	25	[illegible]	------	25	------	29	------	22	18	------
TOTAL	845	852	926	75	859	936	775	855	770	728	669	565
MEAN	27.3	28.4	29.9	24.	30.7	30.2	25.8	27.6	25.7	23.5	21.6	18.8
MAX	56	50	50	3	52	42	34	37	28	31	29	21
MIN	20	23	23	2	22	24	24	24	22	19	18	17

CAL YR 1970 TOTAL 10,695 MEAN 29.3 MAX 56 MIN 20
WTR YR 1971 TOTAL 9,551 MEAN 26.2 MAX 56 MIN 17

01105880 Herring River at North Harwich, Mass.

LOCATION.--Lat 41°42'00", long 70°06'27", Barnstable County, on left bank 30 ft upstream from bridge on U.S. Route 6, 0.8 mile northeast of North Harwich, 1.1 miles downstream from Hinckleys Pond, and 2 miles northwest of Harwich.

DRAINAGE AREA.--About 9.4 sq mi.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 10.0 cfs.

EXTREMES.--Current year: Maximum discharge, 28 cfs May 24 (gage height, 3.70 ft); minimum, 1.9 cfs Sept. 24, 25, 29, 30.
Period of record: Maximum discharge, 54 cfs June 6, 1967 (gage height, 4.88 ft); minimum, 0.85 cfs Oct. 4-9, 1966.

REMARKS.--Records good. Flow regulated by many ponds above station—some with no outlets. Surface flow may be affected by ground water that enters from or moves into adjacent basins.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.1	8.0	9.4	4.6	12	11	15	15	8.5	6.2	2.2
2	5.1	6.0	8.0	11	4.4	11	11	15	16	8.7	6.2	2.2
3	4.9	12	8.0	10	4.4	11	12	16	15	8.7	6.2	2.1
4	4.9	9.2	8.2	9.4	4.4	13	15	16	15	8.5	5.4	2.1
5	4.7	9.4	8.0	11	6.0	12	17	15	14	8.5	7.6	2.2
6	4.7	8.9	8.2	8.9	6.3	11	17	15	13	8.5	6.7	2.2
7	4.7	8.7	7.8	8.7	6.0	11	19	14	13	8.0	6.2	2.2
8	5.4	8.5	7.4	8.7	8.7	11	19	14	13	7.8	5.1	2.1
9	5.4	8.5	7.1	8.7	8.5	9.9	18	15	13	7.4	4.9	2.1
10	4.4	8.2	7.1	8.5	8.2	9.7	18	16	14	3.2	4.7	2.1
11	4.4	6.7	6.9	8.5	7.1	11	17	16	13	2.7	4.7	2.1
12	4.3	6.3	7.4	8.9	6.5	11	17	15	13	2.5	4.9	2.1
13	4.7	8.7	8.0	8.9	7.4	11	16	15	13	2.1	4.6	2.0
14	6.3	10	7.8	8.9	8.9	11	14	18	13	2.0	4.4	2.0
15	6.3	11	7.4	9.2	8.0	11	13	17	12	2.0	3.5	2.0
16	6.3	11	6.7	8.9	7.6	11	13	17	12	2.1	2.2	2.1
17	5.8	10	7.6	8.9	7.1	11	14	16	12	2.1	2.2	2.1
18	5.3	9.7	6.7	8.2	7.4	11	14	18	11	2.2	2.1	2.0
19	4.9	9.4	6.2	6.0	7.6	11	14	17	11	2.9	2.1	2.0
20	4.7	9.2	6.0	3.5	8.0	15	14	17	11	3.2	2.9	2.0
21	4.6	9.4	6.0	3.2	8.0	13	14	17	11	3.1	2.9	2.0
22	4.6	9.2	6.2	3.5	7.8	12	13	17	10	3.0	2.9	2.0
23	7.1	9.2	6.5	3.7	7.6	12	13	17	9.7	3.2	2.9	2.0
24	7.6	9.2	8.0	3.7	6.5	11	12	19	8.5	3.4	2.6	1.9
25	8.5	8.7	7.8	3.8	6.9	11	12	18	10	5.8	2.6	1.9
26	6.0	8.5	9.4	4.4	8.2	10	12	17	10	7.4	2.6	2.0
27	5.4	8.2	9.4	4.6	9.4	10	12	17	9.9	7.1	2.6	2.0
28	5.3	8.0	9.2	5.8	11	10	12	16	9.7	6.9	2.6	2.0
29	5.3	8.2	8.9	4.1	------	10	15	16	8.9	6.5	2.4	1.9
30	5.4	8.2	8.5	4.6	------	11	15	16	8.7	6.5	2.2	1.9
31	5.1	------	8.2	4.7	------	11	------	16	------	6.3	2.2	------
TOTAL	167.2	263.3	236.6	220.3	202.5	346.6	433	503	358.4	160.8	121.3	61.5
MEAN	5.39	8.78	7.63	7.11	7.23	11.2	14.4	16.2	11.9	5.19	3.91	2.05
MAX	8.5	12	9.4	11	11	15	19	19	16	8.7	7.6	2.2
MIN	4.3	5.1	6.3	3.2	4.4	9.7	11	14	8.5	2.0	2.1	1.9

CAL YR 1970 TOTAL 4,298.3 MEAN 11.8 MAX 22 MIN 4.3
WTR YR 1971 TOTAL 3,074.5 MEAN 8.42 MAX 19 MIN 1.9

01105895 Weweantic River at South Wareham, Mass.

LOCATION.--Lat 41°46'12", long 70°45'18", Plymouth County, on left bank at upstream side of bridge on Squire Island Road at South Wareham and 0.2 mile upstream from Horseshoe Pond.

DRAINAGE AREA.--56.1 sq mi.

PERIOD OF RECORD.--December 1969 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 320 cfs Mar. 17 (gage height, 3.84 ft); minimum, 8.5 cfs Aug. 19; minimum daily, 9.6 cfs Sept. 25, 26.
Period of record: Maximum discharge, 856 cfs Dec. 29, 1969 (gage height, 5.86 ft); minimum, 8.5 cfs Aug. 19, 1971; minimum daily, 9.6 cfs Sept. 25, 26, 1971.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some regulation by ponds above station. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	52	65	56	49	130	112	78	102	20	25	15
2	19	64	63	53	45	126	114	88	95	22	22	12
3	18	120	63	52	42	114	124	95	108	25	21	13
4	20	134	64	61	40	146	129	100	120	25	20	12
5	16	151	57	87	46	178	124	111	108	26	18	12
6	20	164	54	96	60	207	117	115	91	20	16	11
7	23	148	48	105	70	199	147	106	81	21	15	13
8	25	126	47	101	105	188	162	95	73	25	14	14
9	26	114	38	80	176	182	173	101	66	21	14	11
10	26	110	40	66	215	170	168	116	56	23	13	12
11	25	105	36	63	207	168	151	136	48	25	14	12
12	26	89	35	61	162	196	137	155	51	22	17	12
13	29	83	38	58	158	199	125	155	51	19	17	12
14	24	115	39	54	218	185	110	148	45	19	16	16
15	26	144	33	58	262	182	100	124	45	21	15	17
16	26	209	29	64	250	209	92	130	44	18	15	16
17	28	204	46	55	202	270	84	164	44	17	14	15
18	25	179	56	49	164	304	78	194	40	18	12	14
19	26	154	61	46	140	262	72	186	38	19	11	13
20	34	140	66	44	124	261	66	167	38	50	16	12
21	35	141	61	42	114	268	62	147	36	51	21	12
22	33	136	52	41	107	261	58	124	38	46	20	11
23	80	126	46	40	120	233	55	108	34	37	20	11
24	93	119	49	40	129	204	52	100	38	30	18	11
25	69	111	45	59	133	188	50	124	36	25	15	9.6
26	87	102	47	85	129	172	49	105	35	21	14	9.6
27	80	94	51	93	126	154	48	91	32	22	14	11
28	64	84	54	85	126	146	47	68	28	21	19	12
29	58	73	54	74	------	144	56	61	28	20	18	12
30	54	69	55	62	------	133	68	83	28	21	16	11
31	45	------	56	54	------	120	------	110	------	26	18	------
TOTAL	1,180	3,660	1,548	1,984	3,719	5,899	2,930	3,683	1,677	776	518	374.2
MEAN	38.1	122	49.9	64.0	133	190	97.7	119	55.9	25.0	16.7	12.5
MAX	93	209	66	105	262	304	173	194	120	51	25	17
MIN	16	52	29	40	40	114	47	61	28	17	11	9.6
CFSM	.68	2.17	.89	1.14	2.37	3.39	1.74	2.12	1.00	.45	.30	.22
IN.	.78	2.43	1.03	1.32	2.47	3.91	1.94	2.44	1.11	.51	.34	.25

CAL YR 1970 TOTAL 34,335.0 MEAN 94.1 MAX 560 MIN 16 CFSM 1.68 IN 22.77
WTR YR 1971 TOTAL 27,940.2 MEAN 76.6 MAX 304 MIN 9.6 CFSM 1.37 IN 18.53

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	2300	3.84	320				

NOTE.--No gage-height record Jan. 9 to Feb. 8.

01106000 Adamsville Brook at Adamsville, R.I.

LOCATION.--Lat 41°33'30", long 71°07'47", Newport County, on right bank 0.2 mile upstream from milldam at Adamsville and 0.7 mile upstream from mouth.

DRAINAGE AREA.--7.91 sq mi (revised).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 16, 1942. Altitude of gage is 15 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 13.9 cfs (23.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 173 cfs Feb. 14 (gage height, 5.62 ft); minimum, 0.03 cfs Sept. 24, 25, 29.
Period of record: Maximum discharge, 316 cfs Dec. 27, 1969 (gage height, 7.65 ft); maximum gage height, 7.70 ft Mar. 18, 1968; minimum, 0.03 cfs Sept. 23, 24, Oct. 3, 4, 1950, Sept. 24, 25, 29, 1971.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1701: 1955-59.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	8.2	11	10	8.8	47	11	14	17	1.2	.15	.07
2	1.7	10	10	10	8.0	33	11	13	15	1.3	.15	.07
3	2.1	54	10	10	7.2	27	14	22	15	1.2	.15	.07
4	4.0	64	11	10	6.5	51	14	36	13	1.2	.15	.09
5	3.5	46	11	33	10	69	14	31	12	.93	.19	.09
6	2.7	33	12	68	35	49	14	22	11	.71	.19	.09
7	2.4	25	12	53	32	38	38	18	11	.61	.15	.12
8	2.2	18	9.9	33	82	40	50	16	9.2	.52	.12	.09
9	2.0	15	9.5	22	142	35	37	27	8.3	.44	.12	.07
10	2.0	14	9.9	17	67	27	26	30	7.5	.37	.09	.07
11	2.5	13	9.5	15	35	27	20	28	6.7	.30	.09	.07
12	2.7	12	9.5	14	23	36	17	23	6.0	.30	.12	.07
13	2.8	13	10	12	35	38	14	19	6.0	.30	.09	.07
14	2.8	27	11	11	130	33	14	22	5.7	.30	.09	.09
15	2.8	33	10	10	74	28	13	19	4.4	.24	.09	.05
16	4.0	33	9.5	9.6	40	26	12	25	4.1	.19	.09	.05
17	5.2	27	22	8.8	28	24	11	55	3.6	.19	.07	.05
18	4.9	21	54	7.8	23	21	11	48	3.3	.15	.07	.07
19	4.9	18	55	7.2	23	20	11	33	3.1	.15	.07	.07
20	4.9	15	41	6.8	24	36	10	26	2.8	.15	.08	.07
21	4.6	20	32	6.4	27	41	9.7	20	2.6	.12	.07	.09
22	4.6	21	26	6.4	25	32	9.7	17	2.4	.12	.07	.05
23	14	20	19	6.4	32	24	9.2	15	2.2	.12	.07	.07
24	41	18	21	6.4	43	20	8.8	13	1.9	.12	.07	.05
25	43	15	22	6.6	35	17	8.8	12	2.0	.09	.07	.09
26	29	13	28	9.5	27	16	8.3	11	1.8	.09	.07	.07
27	20	12	17	12	35	16	8.3	11	1.5	.09	.12	.09
28	15	12	15	10	59	13	8.3	10	1.2	.09	.12	.09
29	12	11	13	8.6	-------	13	11	9.2	1.1	.09	.09	.05
30	9.9	11	11	9.5	-------	13	13	13	.93	.15	.09	.05
31	9.1	-------	10	10	-------	12	-------	17	-------	.12	.09	-------
TOTAL	264.0	652.2	551.8	460.0	1,116.5	920	457.1	671.2	182.23	11.95	3.26	2.15
MEAN	8.52	21.7	17.8	14.8	39.9	29.7	15.2	21.7	6.07	.39	.11	.072
MAX	43	64	55	68	142	69	50	55	17	1.3	.19	.12
MIN	1.7	8.2	9.5	6.4	6.5	12	8.3	9.2	.93	.09	.07	.05
CFSM	1.08	2.74	2.25	1.87	5.04	3.75	1.92	2.74	.77	.05	.01	.009
IN.	1.24	3.07	2.59	2.16	5.25	4.33	2.15	3.17	.86	.06	.02	.01

CAL YR 1970 TOTAL 6,156.10 MEAN 16.9 MAX 260 MIN 1.1 CFSM 2.14 IN 28.96
WTR YR 1971 TOTAL 5,284.39 MEAN 14.5 MAX 142 MIN .05 CFSM 1.83 IN 24.85

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-9	0715	5.55	169				
2-14	0630	5.62	173				

01107000 Dorchester Brook near Brockton, Mass.

LOCATION.--Lat 42°03'41", long 71°03'59", Plymouth County, on right bank 20 ft upstream from bridge on Pearl Street and 3 miles southwest of Brockton.

DRAINAGE AREA.--4.67 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 7.61 cfs (22.13 inches per year).

EXTREMES.--Current year: Maximum discharge, 107 cfs Feb. 14 (gage height, 3.46 ft); minimum, 0.02 cfs several days in August and September.
Period of record: Maximum discharge, 359 cfs Mar. 18, 1968 (gage height, 5.86 ft); no flow for part of Sept. 8, 9, 1964.

REMARKS.--Records good except those for periods of no gage-height record or indefinite stage-discharge relation, which are fair. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.71	4.4	6.7	6.2	27	6.3	8.7	7.1	.67	.41	.07
2	.11	4.0	4.2	7.2	5.1	21	6.1	7.9	6.2	1.2	.26	.05
3	.11	18	4.0	7.7	4.6	18	7.9	10	5.6	.60	.19	.04
4	.39	11	5.6	7.7	4.2	31	8.6	17	6.0	.45	.17	.03
5	.22	11	5.4	10	4.6	37	8.0	14	5.6	.38	.16	.03
6	.18	9.7	5.8	16	5.3	25	7.0	10	4.6	.34	.13	.03
7	.14	7.6	4.9	15	5.3	22	25	8.2	3.9	.26	.10	.04
8	.12	6.3	4.3	10	11	26	35	8.4	3.4	.17	.08	.03
9	.11	5.2	3.6	8.2	25	22	18	10	4.0	.15	.06	.02
10	.10	4.6	4.4	7.4	29	18	18	14	3.0	.12	.05	.03
11	.18	4.8	4.2	7.2	21	17	20	14	2.1	.13	.11	.03
12	.18	5.4	3.9	6.7	13	19	15	13	1.5	.12	.10	.19
13	.25	6.4	3.9	6.9	49	20	12	12	1.7	.13	.07	.30
14	.39	12	4.4	5.7	95	20	10	17	2.4	.21	.06	2.4
15	.47	11	4.2	6.2	44	20	11	15	2.5	.22	.08	1.1
16	1.3	11	4.0	6.9	21	22	11	22	2.5	.20	.08	.36
17	.52	9.0	12	5.9	16	21	9.4	35	2.2	.17	.04	.26
18	.62	7.1	31	5.9	14	18	8.4	23	1.9	.28	.03	.21
19	.57	6.4	26	5.9	14	16	8.2	16	1.7	.38	.02	.20
20	.47	6.1	21	5.7	17	27	7.9	13	1.5	1.6	.11	.17
21	.47	9.1	16	4.9	20	26	8.7	11	1.3	.60	.05	.22
22	.47	8.2	12	4.6	17	21	6.9	9.5	1.2	.34	.03	.22
23	3.8	7.1	10	4.9	21	17	6.9	8.4	1.1	.22	.06	.20
24	5.1	6.1	11	5.7	24	14	7.4	7.9	1.0	.19	.04	.17
25	2.5	5.5	11	5.1	18	12	7.7	7.4	.91	.18	.03	.14
26	1.5	5.1	11	6.2	15	11	6.7	6.9	.82	.19	.03	.12
27	1.2	4.9	9.7	6.2	21	9.0	6.7	6.4	.77	.20	.11	.13
28	1.0	4.7	8.4	6.2	31	8.7	6.7	6.1	.71	.17	.11	.13
29	.90	4.6	7.7	6.4	------	7.7	7.7	6.0	.65	.14	.20	.13
30	.80	4.5	7.4	6.2	------	7.2	8.7	7.0	.54	.49	.15	.13
31	.75	------	6.4	6.4	------	6.9	------	7.9	------	1.4	.10	------
TOTAL	25.03	217.11	271.8	221.7	571.3	587.5	326.9	372.7	78.40	11.90	3.22	7.18
MEAN	.81	7.24	8.77	7.15	20.4	19.0	10.9	12.0	2.61	.38	.10	.24
MAX	5.1	18	31	16	95	37	35	35	7.1	1.6	.41	2.4
MIN	.10	.71	3.6	4.6	4.2	6.9	6.1	6.0	.54	.12	.02	.02
CFSM	.17	1.55	1.88	1.53	4.37	4.07	2.33	2.57	.56	.08	.02	.05
IN.	.20	1.73	2.17	1.77	4.55	4.68	2.60	2.97	.62	.09	.03	.06

CAL YR 1970 TOTAL 2,708.71 MEAN 7.42 MAX 127 MIN .01 CFSM 1.59 IN 21.58
WTR YR 1971 TOTAL 2,694.74 MEAN 7.38 MAX 95 MIN .02 CFSM 1.58 IN 21.47

PEAK DISCHARGE (BASE, 55 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-14	0630	3.46	107				

NOTE.-- No gage-height record May 16 to June 29. Stage-discharge relation indefinite Nov. 7 to Dec. 18.

01108000 Taunton River at State Farm, near Bridgewater, Mass.

LOCATION.--Lat 41°56'05", long 70°57'18", Plymouth County, on right bank at State Farm, 1 mile upstream from Sawmill Brook, 3.5 miles northwest of Middleboro, and 4 miles southeast of Bridgewater.

DRAINAGE AREA.--260 sq mi.

PERIOD OF RECORD.--October 1929 to current year. Prior to October 1969, published as "at State Farm."

GAGE.--Water-stage recorder. Datum of gage is 9.61 ft above mean sea level. Prior to Oct. 1, 1931, inverted nonrecording gage at site 40 ft downstream with zero of gage at 10.02 ft on present gage. Oct. 1, 1931, to June 8, 1934, nonrecording gage, and June 9, 1934, to Oct. 12, 1939, water-stage recorder, at site 40 ft downstream at present datum.

AVERAGE DISCHARGE.--42 years, 475 cfs (24.81 inches per year), adjusted for diversions.

EXTREMES.--Current year: Maximum discharge, 2,240 cfs Feb. 15 (gage height, 8.27 ft); minimum, 44 cfs Sept. 7; minimum daily, 45 cfs Sept. 30.
Period of record: Maximum discharge, 4,980 cfs Mar. 20, 1968 (gage height, 14.48 ft); minimum, 8 cfs Sept. 10, 1944; minimum daily, 9 cfs Sept. 9-12, 1944.

REMARKS.--Records good. Diversions to and from basin above station for municipal supplies: to the basin from Silver Lake for Brockton and other towns and from Great Sandy Bottom Pond for Abington; from the basin from ponds at head of Nemasket River for New Bedford, Taunton, and other towns. Flow regulated by reservoirs and small powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1934. WSP 1051: 1933. WSP 1201: 1931. WSP 1301: 1930(M), 1933(M), 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	134	245	376	286	1,120	510	483	448	73	111	64
2	69	137	259	368	263	1,070	483	501	364	77	97	59
3	69	501	274	368	238	1,030	501	543	360	83	87	53
4	87	686	293	364	220	1,150	488	721	360	77	101	50
5	102	641	332	497	231	1,410	456	716	328	73	107	48
6	96	616	321	711	364	1,340	435	656	297	69	98	46
7	85	515	301	666	422	1,250	656	582	274	67	90	46
8	102	426	267	611	519	1,280	1,010	519	241	62	86	49
9	81	356	252	524	1,130	1,200	966	591	259	59	80	51
10	73	305	267	456	1,260	1,060	856	776	263	59	74	50
11	69	271	263	405	951	956	756	796	227	56	68	47
12	69	249	263	388	771	931	671	731	203	54	70	48
13	69	241	271	356	866	951	611	651	184	53	70	52
14	81	439	271	332	1,910	966	567	671	171	53	67	74
15	73	567	271	328	2,160	971	519	641	159	56	64	86
16	100	621	256	340	1,770	981	474	621	148	54	62	76
17	174	562	368	297	1,360	976	456	961	142	52	61	70
18	107	488	831	278	1,120	916	435	1,020	132	59	56	67
19	105	422	836	263	996	846	414	926	122	64	53	65
20	100	380	806	245	946	991	401	826	114	103	62	59
21	94	418	781	231	956	1,090	388	726	102	114	78	60
22	94	426	691	227	896	1,010	388	646	98	95	83	68
23	124	397	586	227	931	926	348	586	91	86	81	68
24	348	364	567	227	1,110	861	336	515	89	81	81	68
25	249	328	596	227	1,030	781	324	488	89	77	81	78
26	241	297	572	267	911	716	324	461	89	72	73	74
27	238	271	562	380	921	666	321	426	91	68	70	62
28	203	256	515	309	1,120	621	317	405	89	67	81	58
29	181	252	479	293	------	591	364	380	79	67	80	54
30	162	252	435	290	------	572	474	372	73	67	70	45
31	145	------	401	317	------	543	------	435	------	93	67	------
TOTAL	3,859	11,818	13,432	11,168	25,658	29,772	15,249	19,372	5,686	2,190	2,409	1,795
MEAN	124	394	433	360	916	960	508	625	190	70.6	77.7	59.8
MAX	348	686	836	711	2,160	1,410	1,010	1,020	448	114	111	86
MIN	69	134	245	227	220	543	317	372	73	52	53	45
MEAN†	148	416	454	377	933	978	525	643	215	94.0	113	93.1
CFSM†	.57	1.60	1.75	1.45	3.59	3.76	2.02	2.47	.83	.36	.43	.36
IN.†	.66	1.79	2.02	1.67	3.74	4.34	2.26	2.85	.92	.42	.50	.40

CAL YR 1970 TOTAL 174,936 MEAN 479 MAX 2,990 MIN 47 MEAN† 503 CFSM† 1.93 IN† 26.26
WTR YR 1971 TOTAL 142,408 MEAN 390 MAX 2,160 MIN 45 MEAN† 413 CFSM† 1.59 IN† 21.55

† Adjusted for diversions to and from basin for municipal supplies of New Bedford, Taunton, Brockton, Abington, and other towns. Records of diversion furnished by municipalities.

01108500 Wading River at West Mansfield, Mass.

LOCATION.--Lat 42°00'00", long 71°15'38", Bristol County, on right bank 200 ft downstream from Balcolm Street Bridge at West Mansfield, 2 miles upstream from Hodges Brook, and 3 miles southwest of Mansfield.

DRAINAGE AREA.--19.2 sq mi.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 120.85 ft above mean sea level.

AVERAGE DISCHARGE.--18 years, 33.7 cfs (23.84 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 115 cfs Mar. 4 (gage height, 4.90 ft); minimum daily, 0.12 cfs Sept. 8-11.
Period of record: Maximum discharge, 541 cfs Mar. 19, 1968 (gage height, 6.60 ft); no flow Oct. 22-24, 1957 (caused by temporary storage upstream).
REVISIONS.--The minimum daily discharge for the water year 1970 has been revised to 1.2 cfs July 12, 1970.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro (see table below for figures of diversion) and small diversions to and from basin for other municipal supplies.

REVISIONS (WATER YEARS).--WSP 1621: 1953-58 (monthly runoff). Revised figures of daily discharge, in cubic feet per second, for August and September 1970, superseding figures published in WRD Mass., N.H., R.I., and Vt., 1970, are given herewith:

Date 1970	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
Aug. 30	2.2	Sept. 5	2.6	Sept. 12	2.1	Sept. 19	2.8	Sept. 26	2.0
31	2.6	6	2.7	13	2.1	20	2.5	27	1.9
Sept. 1	2.5	7	2.1	14	2.0	21	2.4	28	1.6
2	2.3	8	2.0	15	2.2	22	2.3	29	1.6
3	2.1	9	2.0	16	2.7	23	2.2	30	1.5
4	2.2	10	2.0	17	2.6	24	2.1		
		11	2.3	18	2.6	25	2.0		

	Cfs-days	Maximum	Minimum	(†)	Mean	Mean‡	Per square mile‡	Runoff in inches‡
August 1970.............	128.9	7.6	2.2	3.96	4.16	-	-	-
September 1970...........	66.0	2.8	1.5	3.87	2.20	-	-	-
Water year 1970.......	13,868.6	221	1.2	-	38.0	40.8	2.12	28.86

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.4	10	23	16	97	40	33	24	2.4	1.7	.31
2	1.3	3.1	6.6	25	15	97	37	31	19	2.3	1.6	.25
3	1.4	15	4.7	23	14	97	42	39	20	2.2	1.5	.18
4	1.6	11	6.0	21	12	110	47	49	22	2.1	1.4	.16
5	1.7	10	6.9	31	16	112	45	49	17	2.0	1.3	.14
6	1.8	8.3	7.0	36	22	102	43	47	15	1.8	1.2	.14
7	1.8	7.0	7.0	34	23	99	58	44	14	1.6	1.1	.14
8	1.9	9.1	5.8	31	30	104	67	40	13	1.3	1.0	.12
9	1.9	6.1	5.7	28	50	105	59	42	18	1.1	.95	.12
10	1.9	5.5	6.5	25	50	97	58	42	18	.89	1.0	.12
11	2.0	5.5	6.9	24	45	93	53	39	14	.72	1.6	.12
12	1.9	5.2	8.0	21	40	90	49	41	12	.67	1.6	.14
13	2.0	5.4	10	19	46	83	49	43	9.9	.57	.89	.18
14	2.0	7.9	15	19	100	79	49	39	10	.49	.67	.37
15	2.0	8.6	13	19	90	76	46	35	9.0	.49	.67	.72
16	3.5	9.0	9.8	16	85	79	41	39	7.5	.53	.62	1.0
17	3.8	7.8	23	18	83	79	33	58	7.1	.62	.53	1.0
18	3.1	7.0	42	17	73	76	28	65	6.4	.72	.49	1.1
19	2.8	6.8	44	16	66	74	30	62	6.2	.89	.49	1.4
20	2.5	5.5	44	15	68	90	32	59	5.8	1.1	.89	1.2
21	2.8	6.7	42	15	75	83	32	45	4.8	1.5	1.5	1.2
22	2.8	6.2	38	13	75	74	31	32	4.5	1.7	1.2	1.2
23	8.6	5.7	39	14	88	70	28	39	4.1	1.7	1.3	1.2
24	13	5.2	38	15	92	69	27	34	4.5	1.7	.77	1.2
25	13	4.5	37	14	83	68	26	32	3.4	1.6	.57	1.0
26	5.0	4.1	34	17	78	64	26	30	2.8	1.6	.49	1.1
27	3.7	4.0	32	19	83	60	26	28	2.8	1.6	.77	1.4
28	3.1	4.1	29	20	96	57	23	27	2.7	1.6	1.4	1.2
29	2.8	4.0	26	20	------	54	28	23	2.6	1.5	1.2	1.1
30	2.5	6.6	24	19	------	51	34	23	2.4	1.5	.67	.95
31	2.5	------	23	18	------	46	------	26	------	1.6	.41	------
TOTAL	99.1	197.3	643.9	645	1,614	2,535	1,187	1,235	302.5	42.09	31.48	20.46
MEAN	3.20	6.58	20.8	20.8	57.6	81.8	39.6	39.8	10.1	1.36	1.02	.68
MAX	13	15	44	36	100	112	67	65	24	2.4	1.7	1.4
MIN	1.3	2.4	4.7	13	12	46	23	23	2.4	.49	.41	.12
(†)	3.74	3.34	2.52	2.32	2.33	2.40	2.45	2.64	3.54	3.51	3.16	3.35

CAL YR 1970 TOTAL 11,063.80 MEAN 30.3 MAX 205 MIN 1.2 MEAN‡ 33.2 CFSM‡ 1.73 IN‡ 23.47
WTR YR 1971 TOTAL 8,552.83 MEAN 23.4 MAX 112 MIN .12 MEAN‡ 26.4 CFSM‡ 1.38 IN‡ 18.65

† Diversion, in cubic feet per second, for municipal supply of Attleboro; records furnished by city of Attleboro.
‡ Adjusted for diversion.

01109000 Wading River near Norton, Mass.

LOCATION.--Lat 41°56'51", long 71°10'38", Bristol County, on left bank 200 ft downstream from bridge on State Highway 140, 0.9 mile upstream from confluence with Rumford River, and 1.5 miles southeast of Norton.

DRAINAGE AREA.--42.4 sq mi.

PERIOD OF RECORD.--June 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 49.63 ft above mean sea level. Prior to May 5, 1933, nonrecording gage at same site (at datum 0.62 ft higher prior to Oct. 1, 1930, and at present datum thereafter).

AVERAGE DISCHARGE.--46 years, 71.4 cfs (22.87 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 363 cfs Feb. 14 (gage height, 8.31 ft); maximum gage height, 8.34 ft Feb. 14 (backwater from ice); minimum discharge, 2.1 cfs Sept. 30; minimum daily, 2.4 cfs Aug. 15, 29, Sept. 4-6.

Period of record: Maximum discharge, 1,460 cfs Mar. 19, 1968 (gage height, 11.47 ft); minimum, 0.3 cfs Sept. 10, 1926.

REMARKS.--Records good. Flow regulated to some extent by Lake Mirimichi and other lakes and reservoirs above station. Diversion above station for municipal supply of Attleboro (see table below for figures of diversion) and small diversions to and from basin for other municipal supplies.

REVISIONS (WATER YEARS).--WSP 871: 1938. WSP 1301: 1929-33(M). WSP 1621: 1925-58 (monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	9.5	22	47	36	233	87	86	58	4.7	5.2	3.1
2	3.1	13	28	46	32	213	82	79	52	5.8	4.9	3.1
3	2.6	66	24	45	27	201	84	96	44	6.4	4.2	2.6
4	3.3	65	26	46	23	228	90	126	47	6.1	4.2	2.4
5	4.2	68	31	67	25	260	91	125	44	5.5	3.9	2.4
6	3.9	58	31	93	34	243	87	112	38	5.2	3.7	2.4
7	3.7	61	30	93	41	220	126	101	36	4.7	2.9	3.1
8	3.7	44	26	78	56	236	169	94	33	2.9	2.7	3.3
9	3.1	38	23	71	100	221	157	112	36	2.9	3.3	3.3
10	3.3	33	24	66	120	201	137	127	39	2.9	3.3	3.3
11	3.9	32	24	62	120	189	124	119	34	2.9	3.3	2.6
12	4.4	30	26	58	111	184	114	105	29	3.1	3.5	2.6
13	5.5	31	28	54	138	183	106	99	27	4.9	3.3	3.3
14	5.5	47	30	51	335	177	101	104	24	3.9	2.7	4.7
15	5.2	51	31	48	280	175	95	94	22	2.7	2.4	3.9
16	7.1	55	31	48	215	181	90	97	20	2.6	2.9	3.9
17	7.8	48	46	36	185	180	83	155	18	2.6	3.3	3.7
18	8.5	42	82	44	170	166	76	162	16	2.7	3.1	2.9
19	9.2	38	100	42	158	154	71	143	14	3.3	2.9	2.7
20	8.1	36	115	40	160	197	71	128	13	5.5	5.8	3.3
21	7.1	43	106	36	173	213	71	116	13	4.4	3.5	3.9
22	6.7	41	92	37	166	181	68	98	11	4.2	2.9	3.9
23	17	39	85	38	194	158	66	83	9.9	3.9	3.1	3.7
24	37	35	82	38	211	144	61	79	7.8	3.1	2.9	3.1
25	31	31	78	39	153	136	61	72	4.7	2.9	2.9	10
26	25	27	74	48	182	128	59	66	4.7	3.7	2.7	4.7
27	18	25	65	46	189	120	60	61	5.2	3.9	2.7	3.9
28	14	26	57	40	233	115	58	49	5.8	3.9	2.6	2.9
29	12	24	54	36	------	108	68	53	5.5	3.9	2.4	2.7
30	11	24	51	37	------	83	85	53	5.2	4.7	3.3	2.6
31	9.9	------	48	38	------	93	------	57	------	6.1	3.3	------
TOTAL	288.7	1,180.5	1,570	1,568	3,897	5,521	2,698	3,051	716.8	126.0	103.8	104.0
MEAN	9.31	39.4	50.6	50.6	139	178	89.9	98.4	23.9	4.06	3.35	3.47
MAX	37	68	115	93	335	260	169	162	58	6.4	5.8	10
MIN	2.6	9.5	22	36	23	83	58	49	4.7	2.6	2.4	2.4
(†)	3.74	3.34	2.52	2.32	2.33	2.40	2.45	2.64	3.54	3.51	3.16	3.35

CAL YR 1970 TOTAL 25,700.2 MEAN 70.4 MAX 580 MIN 2.6 MEAN‡ 73.3 CFSM‡ 1.73 IN‡ 23.47
WTR YR 1971 TOTAL 20,824.8 MEAN 57.1 MAX 335 MIN 2.4 MEAN‡ 60.0 CFSM‡ 1.42 IN‡ 19.21

PEAK DISCHARGE (BASE, 280 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-14	1800	8.31	363				
3-5	2300	7.75	280				

† Diversion, in cubic feet per second, for municipal supply of Attleboro; records furnished by city of Attleboro.

‡ Adjusted for diversion.

01109060 Threemile River at North Dighton, Mass.

LOCATION.--Lat 41°51'58", long 71°07'24", Bristol County, on right bank 800 ft downstream from Warner Boulevard at North Dighton and 1.4 miles upstream from mouth.

DRAINAGE AREA.--83.8 sq mi.

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 157 cfs.

EXTREMES.--Current year: Maximum discharge, 637 cfs Feb. 15 (gage height, 4.75 ft); minimum, 9.3 cfs Oct. 6, 7, July 13, Sept. 2, 3, 7, 8.
Period of record: Maximum discharge, 2,490 cfs Mar. 19, 1968 (gage height, 8.30 ft); minimum, 5.6 cfs Aug. 16, 17, 21, 22, 1966.

REMARKS.--Records good. Flow regulated by Lake Mirimichi and other lakes and reservoirs above station. Diversions to and from basin above station for municipal supplies may be compensating.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	22	59	100	85	521	185	163	108	24	24	11
2	10	28	56	97	81	497	180	160	105	24	19	9.7
3	10	119	57	97	76	461	191	176	97	20	24	9.7
4	16	132	64	97	69	529	189	204	91	17	36	11
5	12	132	67	136	74	577	189	228	86	16	35	11
6	10	116	72	178	104	553	189	225	81	15	29	11
7	9.6	94	69	182	109	521	263	199	73	14	27	11
8	9.7	84	64	167	146	529	328	179	69	13	24	9.7
9	9.7	73	58	152	240	513	366	196	71	12	22	11
10	9.7	62	59	140	237	464	342	239	69	12	22	11
11	9.7	56	58	130	226	433	291	247	68	12	22	11
12	11	54	58	125	232	419	266	227	61	11	31	13
13	11	56	61	112	307	412	237	200	57	10	24	15
14	11	84	64	109	569	405	219	201	53	15	22	29
15	11	94	67	100	593	394	201	190	49	14	21	29
16	24	99	65	102	533	391	189	197	47	11	19	21
17	22	94	112	76	426	394	180	252	44	11	18	18
18	17	81	169	93	408	380	165	314	49	17	17	16
19	15	72	194	90	373	356	154	310	48	21	15	15
20	14	68	221	81	359	394	146	272	46	36	28	13
21	14	79	237	77	370	450	144	236	45	23	32	17
22	14	85	219	81	373	454	142	212	43	17	23	19
23	35	87	201	81	405	398	134	184	41	15	19	16
24	72	85	196	81	447	352	130	156	40	14	16	15
25	64	78	178	82	450	317	125	144	41	13	13	15
26	51	70	160	97	412	291	121	133	36	12	12	18
27	42	65	144	116	426	269	118	122	33	12	15	16
28	35	62	144	77	478	251	114	113	32	13	20	13
29	29	59	128	102	------	237	132	101	32	11	17	13
30	25	59	114	102	------	226	150	105	32	15	12	12
31	23	------	104	102	------	194	------	112	------	27	11	------
TOTAL	657.4	2,349	3,518	3,362	8,608	12,582	5,780	5,997	1,747	497	669	440.1
MEAN	21.2	78.3	113	108	307	406	193	193	58.2	16.0	21.6	14.7
MAX	72	132	237	182	593	577	366	314	108	36	36	29
MIN	9.6	22	56	76	69	194	114	101	32	10	11	9.7

CAL YR 1970 TOTAL 53,289.1 MEAN 146 MAX 1,020 MIN 9.6
WTR YR 1971 TOTAL 46,206.5 MEAN 127 MAX 593 MIN 9.6

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-15	2100	4.75	637				

01109070 Segreganset River near Dighton, Mass.

LOCATION.--Lat 41°50'25", long 71°08'36", Bristol County, on left bank 50 ft upstream from twin culverts on Center Street and 1.8 miles northwest of Dighton.

DRAINAGE AREA.--10.6 sq mi.

PERIOD OF RECORD.--July 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 20.6 cfs (26.39 inches per year).

EXTREMES.--Current year: Maximum discharge, 282 cfs Feb. 14 (gage height, 4.80 ft); minimum, 0.01 cfs Sept. 11-13.
Period of record: Maximum discharge, 867 cfs Mar. 18, 1968 (gage height, 7.51 ft); no flow Aug. 13-22, 1966, Oct. 2, 3, 1968, Sept. 5, 6, 1969.

REMARKS.--Records good. Occasional regulation by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	3.6	9.1	11	15	76	16	33	14	.33	.54	.27
2	.33	5.2	8.4	11	13	56	14	29	11	.47	.47	.20
3	.33	43	8.8	11	11	46	22	38	9.1	.47	.44	.23
4	.47	51	8.4	11	10	88	27	59	8.4	.47	.44	.16
5	.54	40	9.8	26	12	121	24	45	7.4	.47	.40	.13
6	.76	30	10	45	24	66	22	30	6.2	.40	.44	.13
7	.69	23	9.5	43	26	65	58	25	5.7	.30	.40	.11
8	.62	16	7.7	29	43	88	82	21	4.9	.23	.40	.09
9	.47	13	7.0	20	127	65	55	33	6.0	.23	.40	.05
10	.40	11	7.0	16	99	47	38	52	6.0	.23	.40	.02
11	.37	9.8	7.4	14	65	40	30	48	4.7	.23	.37	.01
12	.37	9.5	7.4	14	39	44	25	34	3.8	.20	.47	.01
13	.37	11	7.4	14	89	49	22	26	3.3	.16	.37	.02
14	.37	23	9.1	11	255	48	20	29	2.5	.27	.33	.30
15	.37	32	8.8	11	130	46	19	29	1.3	.16	.30	.33
16	1.1	32	8.1	11	61	43	17	34	2.1	.11	.30	.47
17	1.7	25	20	11	42	39	16	78	2.1	.09	.30	.47
18	2.4	19	48	12	40	33	15	63	1.9	.16	.23	.44
19	2.0	15	56	13	44	30	15	40	1.5	.44	.20	.37
20	1.9	14	46	14	46	52	15	29	1.1	2.4	.83	.33
21	1.7	16	36	14	55	58	14	20	1.1	4.9	.62	.33
22	1.6	19	30	11	49	42	14	20	.98	2.4	.98	.33
23	8.4	17	21	11	65	34	13	18	.91	1.5	.98	.37
24	22	15	21	11	83	28	12	15	.91	.98	.62	.33
25	19	13	24	11	64	25	12	14	.76	.91	.40	.20
26	13	11	23	14	46	22	13	12	.54	.91	.37	.13
27	8.8	9.8	20	22	63	20	12	11	.54	.76	2.9	.13
28	6.5	9.5	16	20	99	19	12	9.5	.47	.62	.62	.11
29	5.2	9.1	14	14	------	18	19	9.1	.40	.47	.20	.11
30	4.4	9.1	13	13	------	13	30	9.5	.37	.54	.27	.11
31	3.8	------	11	15	------	16	------	14	------	.62	.23	------
TOTAL	110.29	554.6	532.9	504	1,715	1,437	703	927.1	109.98	22.43	16.22	6.29
MEAN	3.56	18.5	17.2	16.3	61.3	46.4	23.4	29.9	3.67	.72	.52	.21
MAX	22	51	56	45	255	121	82	78	14	4.9	2.9	.47
MIN	.33	3.6	7.0	11	10	13	12	9.1	.37	.09	.20	.01
CFSM	.34	1.75	1.62	1.54	5.78	4.38	2.21	2.82	.35	.07	.05	.02
IN.	.39	1.95	1.87	1.77	6.02	5.04	2.47	3.25	.39	.08	.06	.02

CAL YR 1970 TOTAL 6,709.98 MEAN 18.4 MAX 377 MIN .15 CFSM 1.74 IN 23.55
WTR YR 1971 TOTAL 6,638.81 MEAN 18.2 MAX 255 MIN .01 CFSM 1.72 IN 23.30

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-14	1045	4.80	282				
3-5	1200	4.50	231				

01109200 West Branch Palmer River near Rehoboth, Mass.
(Formerly published as Bliss Brook near Rehoboth)

LOCATION.--Lat 41°52'46", long 71°15'18", Bristol County, on left bank 20 ft downstream from culvert on Homestead Avenue and 2.6 miles north of Rehoboth.

DRAINAGE AREA.--4.96 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 7.37 cfs (20.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 146 cfs Feb. 14 (gage height, 4.53 ft); no flow for part of July 15-17, Aug. 18, 19.
Period of record: Maximum discharge, 441 cfs Mar. 18, 1968 (gage height, 5.43 ft); no flow Sept. 7-9, 1964, July 29 to Aug. 1, Aug. 6-13, 16-18, Sept. 8, 9, 1965, Aug. 16, 1966, and part of Aug. 10, 1970, July 15-17, Aug. 18, 19, 1971.

REMARKS.--Records good except those for winter period or period of no gage-height record, which are fair. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.33	2.5	3.0	1.9	34	5.9	9.6	5.7	.11	.66	.16
2	.08	1.0	2.3	3.0	1.7	25	5.7	9.3	4.3	.18	.39	.10
3	.20	15	2.2	3.0	1.3	20	7.3	17	3.7	.14	.31	.08
4	.29	6.6	3.0	3.0	1.0	42	7.5	26	4.7	.13	.48	.07
5	.14	6.9	3.1	9.5	.90	29	7.1	17	3.9	.13	.52	.06
6	.04	5.5	2.9	10	3.6	25	6.1	12	2.5	.11	.33	.04
7	.01	4.4	2.5	7.0	3.6	28	21	9.4	1.7	.08	.17	.04
8	.01	3.7	2.1	5.0	5.7	36	27	8.3	1.5	.08	.13	.04
9	.02	3.1	1.9	4.1	26	24	18	16	1.9	.07	.07	.04
10	.03	2.8	2.2	3.7	21	18	14	20	1.4	.07	.05	.04
11	.03	2.8	2.1	3.4	16	17	11	16	.71	.07	.05	.04
12	.04	2.8	2.0	3.2	9.2	18	9.4	12	.48	.04	.11	.14
13	.05	3.1	2.0	3.0	30	19	8.3	10	.52	.02	.07	.17
14	.05	7.3	2.2	2.6	98	19	7.5	10	.77	.06	.06	.82
15	.05	6.6	2.1	2.3	51	18	7.1	9.1	.71	.02	.05	1.1
16	.17	6.6	1.9	2.1	26	18	6.4	13	.71	.01	.06	.77
17	.24	5.3	5.7	1.8	16	15	6.4	32	.61	.01	.04	.56
18	.17	4.3	14	1.6	14	13	5.9	22	.56	.07	.03	.42
19	.14	3.8	11	1.5	15	13	6.1	15	.48	.18	.01	.33
20	.11	3.7	11	1.4	19	28	6.1	12	.39	1.4	3.4	.28
21	.10	5.8	8.9	1.3	25	23	5.7	9.4	.39	.94	2.1	.36
22	.10	4.9	7.2	1.4	18	17	5.1	8.3	.39	.56	.61	.42
23	1.5	4.3	5.4	1.6	30	15	4.7	7.5	.36	.31	.36	.33
24	4.9	3.7	5.6	1.5	30	13	4.5	6.6	.28	.20	.28	.20
25	2.0	3.3	6.5	1.6	21	9.9	4.9	5.9	.24	.20	.20	.16
26	1.1	2.8	5.5	2.0	18	9.1	4.9	5.5	.24	.22	.16	.14
27	.86	2.8	4.5	4.0	33	8.3	4.9	4.9	.22	.28	.20	.13
28	.61	2.7	3.9	2.0	45	8.0	4.9	4.7	.20	.31	.61	.13
29	.45	2.6	3.6	1.6	------	7.8	7.3	4.5	.16	.24	.56	.13
30	.41	2.5	3.3	1.8	------	7.1	9.6	5.1	.14	.36	.31	.10
31	.37	------	3.1	2.1	------	6.6	------	6.8	------	1.0	.20	------
TOTAL	14.30	131.03	136.2	95.1	580.90	583.8	250.3	363.9	39.86	7.60	12.58	7.40
MEAN	.46	4.37	4.39	3.07	20.7	18.8	8.34	11.7	1.33	.25	.41	.25
MAX	4.9	15	14	10	98	42	27	32	5.7	1.4	3.4	1.1
MIN	.01	.33	1.9	1.3	.90	6.6	4.5	4.5	.14	.01	.01	.04
CFSM	.09	.88	.89	.62	4.17	3.79	1.68	2.36	.27	.05	.08	.05
IN.	.11	.98	1.02	.71	4.36	4.39	1.88	2.73	.30	.06	.09	.06

CAL YR 1970 TOTAL 2,500.40 MEAN 6.85 MAX 162 MIN .01 CFSM 1.38 IN 18.75
WTR YR 1971 TOTAL 2,222.97 MEAN 6.09 MAX 98 MIN .01 CFSM 1.23 IN 16.67

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	0045	4.53	146				

NOTE.--No gage-height record Dec. 22 to Jan. 19.

01109500 Kettle Brook at Worcester, Mass.

LOCATION.--Lat 42°13'55", long 71°50'07", Worcester County, on right bank 75 ft downstream from Webster Street Bridge at Worcester, 1 mile upstream from Beaver Brook.

DRAINAGE AREA.--31.3 sq mi.

PERIOD OF RECORD.--August 1923 to current year. Prior to October 1950, published as Blackstone River at Worcester. Adjusted monthly discharge, in cubic feet per second per square mile, and runoff, in inches, published in water-supply papers for 1923-58, may be subject to error because of regulation upstream.

GAGE.--Water-stage recorder. Concrete control since Oct. 28, 1937. Datum of gage is 472.86 ft above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--48 years, 52.0 cfs (22.56 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum daily discharge, 181 cfs Mar. 17; minimum discharge, 2.8 cfs Apr. 14.
Period of record: Maximum discharge, 3,970 cfs Aug. 19, 1955 (gage height, 12.78 ft, from floodmark), from rating curve extended above 1,700 cfs on basis of computation of peak flow over dam; maximum daily, 2,720 cfs Aug. 19, 1955; minimum discharge, 0.2 cfs May 17, 1940.

REMARKS.--Records excellent. City of Worcester diverts flow for municipal use from about 7.0 sq mi of drainage area above station; see table below for figures of diversion. Since October 1959, city diverts flow through tunnel during periods of high flow; this flow included in daily discharge. No diversion during year. Flow regulated by reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1301: 1927(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	10	22	26	22	101	93	42	38	21	28	10
2	8.4	10	21	26	20	95	91	37	31	27	22	12
3	9.2	16	20	25	19	88	113	50	35	22	19	13
4	14	14	50	26	18	86	124	80	42	22	22	12
5	10	27	45	44	21	79	99	74	32	21	23	11
6	8.7	24	34	47	26	71	82	55	25	20	21	10
7	8.4	20	28	40	26	68	91	45	22	22	20	10
8	8.1	17	24	34	28	69	97	39	23	19	18	10
9	7.8	16	24	30	38	60	93	54	35	19	16	12
10	7.3	16	25	28	35	55	101	97	24	19	16	14
11	7.8	39	24	28	31	52	103	101	19	18	26	14
12	8.1	33	26	29	28	50	93	76	16	18	44	94
13	7.8	27	25	26	38	47	105	88	15	19	21	68
14	7.5	40	24	25	86	51	55	171	15	23	17	42
15	8.4	38	22	24	71	65	65	137	14	20	15	30
16	20	37	21	23	59	147	60	105	14	19	13	21
17	11	29	29	21	51	181	57	123	13	27	12	17
18	8.1	25	32	20	52	166	56	107	19	42	12	15
19	7.3	24	31	19	56	140	54	81	19	32	11	14
20	6.7	29	33	18	52	135	50	65	18	34	18	14
21	6.7	45	33	18	51	128	47	56	18	28	13	19
22	7.3	33	32	19	45	105	44	59	24	26	11	16
23	31	33	32	20	60	99	39	54	22	24	10	14
24	51	30	33	20	56	95	34	46	19	22	10	13
25	27	24	30	20	50	86	33	41	18	22	11	12
26	20	21	28	28	50	82	31	37	29	22	12	12
27	16	21	27	36	71	77	32	34	19	20	20	12
28	14	21	26	30	93	77	33	32	17	18	46	12
29	12	21	26	28	------	82	45	30	17	18	26	12
30	11	24	24	28	------	93	48	29	16	35	15	11
31	10	------	24	26	------	97	------	33	------	42	12	------
TOTAL	389.3	764	875	832	1,253	2,827	2,068	2,078	668	741	580	576
MEAN	12.6	25.5	28.2	26.8	44.8	91.2	68.9	67.0	22.3	23.9	18.7	19.2
MAX	51	45	50	47	93	181	124	171	42	42	46	94
MIN	6.7	10	20	18	18	47	31	29	13	18	10	10
(†)	6.53	4.14	5.19	5.00	5.14	6.28	6.61	6.30	7.77	7.07	6.42	6.56

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CAL YR 1970   TOTAL 15,037.0   MEAN 41.2   MAX 360   MIN 6.7   MEAN‡  49.7   CPSM‡  1.59   IN‡  21.56
WTR YR 1971   TOTAL 13,651.3   MEAN 37.4   MAX 181   MIN 6.7   MEAN‡  43.5   CPSM‡  1.39   IN‡  18.87
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† Diversion, in cubic feet per second, for municipal supply of Worcester; records furnished by city of Worcester.
‡ Adjusted for diversion.

01110000 Quinsigamond River at North Grafton, Mass.

LOCATION.--Lat 42°13'49", long 71°42'41", Worcester County, on right bank 800 ft downstream from dam at outlet of Hovey Pond at North Grafton and 0.3 mile upstream from Bummett Brook.

DRAINAGE AREA.--25.5 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 335 ft (from topographic map). Prior to Dec. 7, 1939, staff gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 40.3 cfs (21.62 inches per year).

EXTREMES.--Current year: Maximum discharge, 136 cfs Mar. 17 (gage height, 2.39 ft); minimum daily, 1.1 cfs Aug. 10, 26, Sept. 11.
Period of record: Maximum discharge, 820 cfs Aug. 20, 1955 (gage height, 5.15 ft); no flow Aug. 6-9, 22, 1966, caused by unusual regulation.

REMARKS.--Records good. Some regulation by Lake Quinsigamond 2.3 miles upstream and by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	11	22	17	19	78	71	44	39	8.2	18	7.6
2	2.8	11	19	18	18	80	69	42	35	12	15	5.9
3	2.9	14	17	17	16	83	74	45	35	10	3.4	4.6
4	6.3	13	29	16	16	92	82	54	33	8.2	3.4	4.1
5	5.4	20	30	22	18	89	76	53	4.3	6.9	4.1	3.5
6	3.9	21	29	24	20	80	71	48	3.5	5.9	3.2	2.9
7	3.2	17	16	24	20	79	83	46	4.8	10	2.8	2.2
8	3.4	16	23	22	26	79	84	43	6.9	8.9	2.2	1.8
9	3.1	14	22	21	32	76	79	49	14	7.9	1.6	1.8
10	2.9	13	22	20	30	69	79	62	15	7.3	1.1	1.3
11	3.1	17	20	19	27	68	79	61	14	6.3	2.5	1.1
12	2.8	19	22	19	27	65	79	55	14	5.6	17	24
13	2.8	19	23	17	33	63	76	63	14	4.8	14	35
14	3.1	24	22	18	57	62	68	84	13	7.3	11	44
15	3.4	28	21	19	56	69	65	77	11	7.6	10	38
16	7.3	32	19	19	54	105	59	82	11	5.9	7.9	30
17	7.6	26	27	17	56	131	56	90	11	6.6	5.6	25
18	5.2	22	31	15	53	132	55	78	10	19	4.6	21
19	3.4	21	29	15	52	119	54	69	9.3	18	3.7	19
20	2.5	22	29	14	54	120	51	64	8.6	20	5.9	15
21	2.3	30	26	14	56	117	47	60	8.6	19	5.9	15
22	2.8	22	25	13	51	110	49	61	11	17	5.2	14
23	18	24	25	13	59	120	47	57	11	15	4.3	11
24	40	25	28	14	60	103	41	52	11	14	3.1	11
25	33	22	26	13	56	92	42	47	9.8	13	1.6	7.6
26	31	20	24	17	54	99	40	46	14	11	1.1	6.9
27	27	19	24	22	63	91	39	44	13	11	2.9	6.3
28	22	22	24	22	73	90	37	42	10	10	14	5.6
29	19	25	21	20	------	73	42	40	7.9	9.6	16	5.2
30	16	24	20	20	------	73	45	39	7.3	14	13	5.2
31	14	------	17	20	------	72	------	39	------	19	10	------
TOTAL	303.6	613	732	561	1,155	2,769	1,839	1,736	410.0	337.0	214.1	375.6
MEAN	9.79	20.4	23.6	18.1	41.3	89.3	61.3	56.0	13.7	10.9	6.91	12.5
MAX	40	32	31	24	73	132	84	90	39	20	18	44
MIN	2.3	11	16	13	16	62	37	39	3.5	4.8	1.1	1.1
CFSM	.38	.80	.93	.71	1.62	3.50	2.40	2.20	.54	.43	.27	.49
IN.	.44	.89	1.07	.82	1.68	4.06	2.68	2.53	.60	.49	.31	.55

CAL YR 1970 TOTAL 14,711.72 MEAN 40.3 MAX 349 MIN .03 CFSM 1.58 IN 21.46
WTR YR 1971 TOTAL 11,045.30 MEAN 30.3 MAX 132 MIN 1.1 CFSM 1.19 IN 16.11

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01110500 Blackstone River at Northbridge, Mass.

LOCATION.--Lat 42°09'13", long 71°39'09", Worcester County, on left bank 800 ft downstream from Paul Whitin Co. dam at Northbridge and 3 miles downstream from Quinsigamond River.

DRAINAGE AREA.--139 sq mi.

PERIOD OF RECORD.--October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 236 cfs (23.06 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 1,290 cfs Mar. 17 (gage height, 6.17 ft); minimum daily, 50 cfs Oct. 12.

Period of record: Maximum discharge, 16,900 cfs Aug. 20, 1955 (gage height, 16.74 ft), from rating curve extended above 3,800 cfs on basis of computation of flow over dam at gage height 13.7 ft and slope-area measurement at gage height 16.74 ft; maximum gage height, 17.53 ft Aug. 20, 1955 (backwater from debris); minimum daily discharge, 2 cfs Aug. 29, 1941, Sept. 5, 1942, Aug. 28, 1957.

Stage and discharge of flood of Aug. 20, 1955, are the greatest since at least 1900. Flood of Mar. 19, 1936, reached a stage of 13.7 ft, from floodmarks (discharge, 7,510 cfs, by computation of flow over dam 800 ft above station).

REMARKS.--Records good except those for period of indefinite stage-discharge relation, which are fair. Flow regulated by mills and reservoirs above station. Daily discharge includes flow diverted from Nashua River basin and, at times since January 1966, from Quabbin Reservoir to Blackstone River basin for municipal supply of Worcester. No diversion from Quabbin Reservoir during year.

REVISIONS (WATER YEARS).--WSP 1301: 1940(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	78	135	119	126	728	474	239	217	110	110	64
2	80	96	125	121	131	704	459	221	203	160	85	68
3	74	143	156	118	129	665	522	292	222	110	74	56
4	127	113	318	123	126	675	533	364	233	96	82	62
5	71	186	231	216	123	618	489	319	200	90	70	56
6	74	159	184	242	139	550	449	273	195	110	64	59
7	73	115	161	202	144	514	484	243	185	130	70	62
8	73	96	138	174	155	523	560	223	175	94	60	64
9	73	102	143	158	235	462	538	284	270	80	65	68
10	61	98	146	140	192	433	539	508	180	76	74	60
11	69	211	137	139	170	443	483	451	160	72	100	70
12	50	164	131	143	167	400	471	364	145	74	150	420
13	72	135	123	138	254	370	441	470	130	76	100	312
14	69	227	129	135	607	389	447	746	125	100	75	258
15	71	216	130	136	428	454	347	598	125	80	62	199
16	141	214	119	131	363	996	311	523	120	90	58	156
17	76	182	150	130	330	1,190	317	624	125	100	62	138
18	54	161	182	130	322	966	292	531	125	140	58	120
19	58	141	164	140	348	854	287	431	130	100	58	108
20	68	165	174	140	389	867	284	389	120	110	90	99
21	82	256	162	135	390	830	268	324	130	95	70	127
22	72	191	125	125	344	717	258	348	170	90	52	105
23	293	200	123	115	453	682	242	299	130	80	54	102
24	342	182	140	107	441	673	225	293	120	75	56	96
25	185	167	143	112	390	609	215	281	120	62	52	103
26	147	141	136	164	373	556	214	214	160	66	65	69
27	131	136	133	199	537	533	218	205	115	70	85	84
28	111	124	137	212	672	511	212	220	110	66	150	127
29	103	121	134	153	-------	489	289	200	105	62	110	131
30	98	140	128	120	-------	502	278	195	105	120	90	103
31	88	-------	123	130	-------	501	-------	198	-------	130	75	-------
TOTAL	3,160	4,649	4,660	4,548	8,478	19,404	11,146	10,870	4,650	2,914	2,426	3,545
MEAN	102	155	150	147	303	626	372	351	155	94.0	78.3	118
MAX	342	256	318	242	672	1,190	560	746	270	160	150	420
MIN	50	78	119	107	123	370	212	195	105	62	52	56
MEAN†	72.3	133	130	126	278	615	366	345	144	67.5	40.6	84.5
CFSM†	.52	.96	.94	.91	2.00	4.42	2.63	2.48	1.04	.49	.29	.61
IN.†	.60	1.07	1.08	1.04	2.08	5.11	2.94	2.86	1.16	.56	.34	.68

CAL YR 1970 TOTAL 98,003 MEAN 269 MAX 2,930 MIN 46 MEAN† 249 CFSM† 1.79 IN† 24.35
WTR YR 1971 TOTAL 80,450 MEAN 220 MAX 1,190 MIN 50 MEAN† 200 CFSM† 1.44 IN† 19.51

† Adjusted for diversion from Nashua River basin to Blackstone River basin for municipal supply of Worcester. Records of diversion furnished by city of Worcester.

NOTE.--Stage-discharge relation indefinite June 5 to Sept. 12. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01111200 West River below West Hill Dam, near Uxbridge, Mass.

LOCATION.--Lat 42°06'17", long 71°36'28", Worcester County, on right bank 250 ft downstream from West Hill Dam, 2.2 miles northeast of Uxbridge, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--27.9 sq mi.

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 240 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 38.3 cfs (18.64 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 202 cfs Mar. 18 (gage height, 2.78 ft); minimum, 1.8 cfs Sept. 10-12; minimum daily, 1.8 cfs Sept. 11.
Period of record: Maximum discharge, about 370 cfs Mar. 26, 1968 (gage height, about 3.45 ft); no flow for part of Aug. 17, 1967 (caused by unusual regulation); minimum daily discharge, 1.1 cfs Sept. 12, 1963, Aug. 12, 1965.

REMARKS.--Records good. Flow regulated by West Hill Reservoir (usable capacity, 542,000,000 cu ft). See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	10	21	24	27	162	104	56	42	7.3	11	3.2
2	4.6	10	21	24	26	171	98	53	42	9.1	8.1	2.7
3	4.0	18	21	24	22	162	100	53	38	9.4	6.3	2.6
4	4.2	22	27	23	23	149	110	65	37	8.5	5.5	2.6
5	4.6	23	36	25	22	158	100	71	35	7.3	5.0	2.4
6	4.6	25	35	36	23	149	89	64	30	6.5	4.6	2.4
7	4.6	24	33	41	24	127	91	56	27	6.0	4.2	2.4
8	4.4	21	27	40	27	123	112	49	25	5.5	3.6	2.4
9	4.2	18	25	35	32	123	117	50	30	5.0	3.4	2.4
10	4.2	16	24	32	37	110	119	71	31	4.6	3.4	2.1
11	4.2	15	22	31	42	100	121	89	25	4.2	3.2	1.8
12	4.4	15	22	31	45	88	112	86	22	4.2	4.4	2.6
13	4.2	15	22	29	45	86	100	78	19	3.8	4.6	9.0
14	4.0	21	23	26	59	81	89	104	18	3.8	4.2	7.8
15	4.0	28	22	27	79	86	81	119	15	3.8	3.6	8.8
16	4.0	33	15	25	104	131	74	108	14	3.8	3.2	7.5
17	4.0	35	21	25	121	191	65	123	14	3.8	2.9	6.0
18	4.2	31	32	25	100	202	60	129	14	4.0	2.6	5.0
19	4.0	28	40	24	86	200	59	110	12	4.0	2.4	4.4
20	4.0	25	41	24	84	196	60	91	10	6.3	2.4	4.2
21	4.0	30	39	24	82	196	59	78	9.4	6.3	2.6	3.8
22	3.8	33	34	23	86	189	55	70	12	5.3	2.7	3.8
23	7.3	31	31	22	86	175	49	68	18	4.8	2.6	3.8
24	22	31	31	21	93	160	46	63	17	4.4	2.4	3.6
25	24	27	31	21	106	145	43	55	14	4.0	2.1	3.4
26	21	24	30	22	100	131	43	50	13	3.8	2.1	3.4
27	19	23	28	27	95	119	41	42	12	3.8	2.7	3.4
28	17	21	27	34	123	110	40	40	10	3.6	5.0	3.4
29	14	21	26	33	------	106	43	40	8.8	3.4	5.5	3.2
30	13	21	25	31	------	106	53	37	7.5	4.8	4.4	3.2
31	12	------	25	30	------	106	------	38	------	11	3.6	------
TOTAL	242.5	695	861	864	1,799	4,338	2,333	2,206	621.7	166.1	124.3	113.3
MEAN	7.82	23.2	27.8	27.9	64.3	140	77.8	71.2	20.7	5.36	4.01	3.78
MAX	24	35	41	41	123	202	121	129	42	11	11	8.8
MIN	3.8	10	15	21	22	81	40	37	7.5	3.4	2.1	1.8
(†)	1.5	2.0	2.2	2.2	6.2	5.8	3.0	2.6	1.1	1.5	.8	.8
MEAN‡	8.07	23.3	27.8	27.9	65.9	140	76.7	71.0	20.1	5.52	3.74	3.78
CFSM‡	.29	.84	1.00	1.00	2.36	5.02	2.75	2.54	.72	.20	.13	.14
IN.‡	.33	.93	1.15	1.15	2.46	5.78	3.07	2.93	.81	.23	.15	.15

CAL YR 1970 TOTAL 16,545.4 MEAN 46.4 MAX 285 MIN 2.4 MEAN‡ 45.3 CFSM‡ 1.62 IN‡ 22.06
WTR YR 1971 TOTAL 14,363.9 MEAN 39.4 MAX 202 MIN 1.8 MEAN‡ 39.3 CFSM‡ 1.41 IN‡ 19.15

† Monthend contents, in millions of cubic feet, in West Hill Reservoir.
‡ Adjusted for change in contents in West Hill Reservoir.

01111300 Nipmuc River near Harrisville, R.I.

LOCATION.--Lat 41°58'52", long 71°41'11", Providence County, on left bank 1 mile upstream from mouth and 1.2 miles northwest of Harrisville.

DRAINAGE AREA.--16.0 sq mi.

PERIOD OF RECORD.--March 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 340 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 23.4 cfs (19.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 203 cfs Mar. 16 (gage height, 4.59 ft); maximum gage height, 5.19 ft Feb. 14 (backwater from ice); minimum discharge, 0.51 cfs Sept. 10-12.

Period of record: Maximum discharge, 1,020 cfs Mar. 18, 1968 (gage height, 7.42 ft), from rating curve extended above 530 cfs; minimum, 0.09 cfs Sept. 10, 1964.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.86	2.0	7.1	10	9.5	80	46	45	27	2.1	4.2	.90
2	.86	2.0	7.1	10	9.0	70	45	35	24	3.8	2.5	.81
3	.86	18	6.6	10	8.5	60	62	49	26	3.4	1.9	.73
4	1.0	14	20	10	8.0	70	54	64	33	2.5	1.7	.73
5	1.4	13	24	23	9.0	68	45	45	26	1.9	1.7	.73
6	1.4	11	16	30	11	60	41	36	19	1.7	1.5	.65
7	1.3	7.6	12	24	12	56	60	32	17	1.5	1.4	.65
8	1.3	5.1	9.4	17	17	58	70	29	16	1.4	1.2	.65
9	1.3	3.9	8.2	15	25	50	69	37	40	1.2	1.1	.65
10	1.2	3.9	7.6	14	25	47	89	70	28	1.2	1.0	.58
11	1.2	3.6	7.9	13	21	45	72	58	18	1.2	.90	.51
12	1.2	3.6	8.4	13	19	42	56	43	15	1.2	1.1	.65
13	1.4	4.3	9.0	12	25	41	48	60	13	1.1	1.0	.90
14	1.6	15	8.5	12	80	42	44	101	12	1.2	1.0	2.1
15	2.2	19	11	11	55	60	39	59	10	1.4	1.0	2.5
16	4.7	22	11	11	43	167	36	68	8.9	1.2	.90	2.3
17	5.1	14	17	10	35	158	36	116	8.3	1.1	.81	1.7
18	3.9	11	25	10	30	112	34	69	7.2	1.1	.73	1.4
19	3.3	8.2	23	9.5	29	90	34	52	5.6	1.2	.73	1.2
20	3.0	8.2	20	9.0	32	151	33	45	5.0	1.9	.81	1.2
21	3.0	19	18	8.5	36	120	31	41	4.2	1.7	.81	1.2
22	3.0	16	16	9.0	34	90	29	49	3.4	1.5	.73	1.1
23	12	13	14	9.5	42	84	26	44	3.1	1.4	.65	1.0
24	15	13	13	9.2	55	77	25	37	2.8	1.2	.65	1.0
25	7.1	10	12	9.2	45	63	25	35	2.8	1.2	.58	.81
26	4.7	7.6	12	11	40	57	24	32	2.8	1.2	.58	.81
27	3.6	7.6	11	15	60	54	25	29	2.8	1.2	.65	.81
28	3.0	7.1	11	13	100	52	24	26	2.5	1.2	1.4	.81
29	2.7	7.1	10	12	------	52	37	25	2.3	1.1	1.4	.81
30	2.2	7.1	10	11	------	53	46	24	2.1	4.6	1.1	.81
31	2.2	------	10	11	------	50	------	25	------	6.7	1.0	------
TOTAL	97.58	296.9	395.8	391.9	915.0	2,279	1,305	1,479	387.8	56.3	36.73	30.70
MEAN	3.15	9.90	12.8	12.6	32.7	73.5	43.5	47.7	12.9	1.82	1.18	1.02
MAX	15	22	25	30	100	167	89	116	40	6.7	4.2	2.5
MIN	.86	2.0	6.6	8.5	8.0	41	24	24	2.1	1.1	.58	.51
CFSM	.20	.62	.80	.79	2.04	4.59	2.72	2.98	.81	.11	.07	.06
IN.	.23	.69	.92	.91	2.13	5.30	3.03	3.44	.90	.13	.09	.07

CAL YR 1970 TOTAL 9,650.09 MEAN 26.4 MAX 411 MIN .63 CFSM 1.65 IN 22.44
WTR YR 1971 TOTAL 7,671.71 MEAN 21.0 MAX 167 MIN .51 CFSM 1.31 IN 17.84

PEAK DISCHARGE (BASE, 270 CFS).--No peak above base.

01111400 Chepachet River at Chepachet, R.I.

LOCATION.--Lat 41°55'22", long 71°39'29", Providence County, on right bank 10 ft downstream from Mower Pond Outlet, 450 ft downstream from old gristmill dam, and 0.9 mile northeast of Chepachet.

DRAINAGE AREA.--17.4 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 355 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 28.9 cfs (22.56 inches per year).

EXTREMES.--Current year: Maximum discharge, about 180 cfs Mar. 16; minimum, 3.3 cfs Sept. 1, 2, 3, 4.
Period of record: Maximum discharge, 1,080 cfs Mar. 18, 1968 (gage height, 8.85 ft), from rating curve extended above 380 cfs on basis of computation of peak flow over dam 450 ft upstream; minimum, 1.9 cfs Aug. 31, Sept. 1, 1965.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Occasional regulation by ponds above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	9.4	17	17	15	130	42	52	19	5.7	8.2	3.3
2	4.3	12	16	17	15	120	41	46	16	7.2	6.4	3.4
3	4.1	41	15	17	14	105	59	61	20	6.4	5.7	3.3
4	5.1	25	25	17	13	110	54	74	30	6.4	5.5	3.3
5	4.6	33	26	34	15	120	47	63	24	6.1	5.3	3.4
6	3.9	27	23	39	17	95	44	61	21	4.8	4.9	3.6
7	4.4	22	20	31	17	85	69	52	17	4.8	4.9	3.6
8	6.2	19	16	27	25	90	82	45	14	4.4	4.8	3.4
9	8.6	17	15	25	37	70	78	46	27	4.4	4.6	3.6
10	9.7	16	15	24	34	58	91	58	22	4.4	4.4	3.4
11	10	17	14	23	31	52	83	59	18	4.3	4.3	3.4
12	10	16	15	23	29	50	70	51	15	4.4	4.9	5.9
13	13	17	15	21	47	48	61	54	13	3.3	4.4	5.7
14	11	28	14	21	122	52	54	66	12	3.9	4.3	19
15	10	28	13	20	88	80	48	55	11	3.7	3.9	11
16	11	29	11	19	72	170	44	64	10	3.9	3.7	7.0
17	9.4	23	21	19	59	160	42	113	9.4	4.1	3.9	5.9
18	8.4	20	29	18	51	130	39	94	8.6	5.7	3.7	5.1
19	7.8	19	25	17	48	110	42	71	8.0	5.7	3.6	4.8
20	8.0	20	24	17	50	150	32	58	7.5	8.8	5.3	4.6
21	7.4	36	21	16	55	130	21	50	7.5	5.3	4.8	5.1
22	6.6	29	19	16	50	100	22	50	8.5	4.4	4.3	4.8
23	26	25	19	15	62	80	24	44	7.5	4.3	3.7	4.6
24	23	23	20	15	67	70	25	38	6.8	4.3	3.4	4.4
25	15	20	19	15	58	60	26	35	6.2	6.1	3.6	4.1
26	12	18	19	19	54	55	26	32	6.1	5.3	3.6	3.9
27	11	18	18	22	70	50	27	29	5.7	4.9	4.9	3.9
28	10	17	18	19	120	48	27	26	5.3	4.6	9.4	3.9
29	10	17	17	18	------	46	40	22	5.3	4.6	12	3.6
30	9.9	18	17	17	------	45	47	20	5.1	13	4.3	3.4
31	9.9	------	16	17	------	43	------	20	------	20	3.6	------
TOTAL	294.6	659.4	572	635	1,335	2,712	1,407	1,609	386.5	179.2	154.3	152.4
MEAN	9.50	22.0	18.5	20.5	47.7	87.5	46.9	51.9	12.9	5.78	4.98	5.08
MAX	26	41	29	39	122	170	91	113	30	20	12	19
MIN	3.9	9.4	11	15	13	43	21	20	5.1	3.3	3.4	3.3
CFSM	.55	1.26	1.06	1.18	2.74	5.03	2.70	2.98	.74	.33	.29	.29
IN.	.63	1.41	1.22	1.36	2.85	5.80	3.01	3.44	.83	.38	.33	.33

CAL YR 1970 TOTAL 12,128.0 MEAN 33.2 MAX 416 MIN 3.9 CFSM 1.91 IN 25.93
WTR YR 1971 TOTAL 10,056.4 MEAN 27.7 MAX 170 MIN 3.3 CFSM 1.59 IN 21.59

PEAK DISCHARGE (BASE, 160 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-16	-	-	†180				

† About.

NOTE.--No gage-height record Feb. 27 to Mar. 10, Mar. 14-28.

01111500 Branch River at Forestdale, R.I.

LOCATION.--Lat 41°59'47", long 71°33'47", Providence County, on left bank 20 ft upstream from abandoned bridge site, 400 ft downstream from milldam at Forestdale, 1 mile east of Slatersville, and 1.6 miles upstream from mouth.

DRAINAGE AREA.--91.2 sq mi.

PERIOD OF RECORD.--September to December 1909 and January 1912 to July 1913 (gage heights only; published as "at Branch Village"), January 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (from topographic map). Prior to July 28, 1913, nonrecording gage st site 1 mile downstream at different datum.

AVERAGE DISCHARGE.--31 years, 160 cfs (23.82 inches per year).

EXTREMES.--Current year: Maximum discharge, 784 cfs Mar. 17 (gage height, 4.96 ft); minimum daily, 13 cfs Aug. 26.

Period of record: Maximum discharge, 4,980 cfs Mar. 18, 1968 (gage height, 11.90 ft), from rating curve extended above 2,100 cfs on basis of computation of peak flow over dam 400 ft above station; minimum daily, 5.2 cfs Oct. 7, 1948.

Maximum discharge since at least 1886, about 5,800 cfs Mar. 19, 1936, by computation of flow over dam 1 mile above station.

REMARKS.--Records good. Prior to 1957, flow regulated by mills and reservoirs above station.

REVISIONS.--WRD Mass., N.H., R.I., Vt. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	36	73	80	83	584	242	218	129	24	61	38
2	30	46	72	81	72	506	221	196	112	43	44	28
3	33	141	67	78	65	495	272	233	119	40	32	28
4	40	122	97	80	63	506	280	322	162	33	26	25
5	34	120	127	129	72	523	228	270	152	30	25	20
6	30	109	108	200	95	434	209	230	124	30	22	18
7	29	87	88	164	94	405	286	205	103	30	20	19
8	29	72	73	129	124	447	364	182	91	23	19	20
9	31	83	70	108	166	386	340	202	156	20	18	18
10	32	84	72	99	174	337	361	277	145	18	17	17
11	35	97	75	96	158	331	349	302	112	17	18	16
12	35	99	81	94	145	305	308	245	94	17	22	28
13	36	102	81	88	172	294	262	247	81	20	19	66
14	37	137	77	87	457	296	230	383	72	32	16	93
15	38	150	94	84	383	325	207	325	69	34	16	81
16	46	160	87	83	296	636	189	299	66	25	16	56
17	34	131	108	71	242	736	180	513	64	23	15	43
18	28	111	147	70	216	572	174	454	69	27	15	41
19	25	103	164	70	212	485	185	367	60	30	15	36
20	24	103	147	67	230	672	180	308	47	47	16	30
21	24	134	129	65	260	628	156	267	42	36	20	34
22	26	122	112	67	240	495	145	272	43	28	18	30
23	88	100	106	75	208	434	127	250	52	24	17	28
24	129	91	106	72	361	399	122	214	46	22	14	27
25	80	78	97	72	311	355	122	172	34	21	14	25
26	61	73	94	87	277	340	120	145	32	22	13	25
27	50	72	90	114	361	319	124	139	29	22	21	25
28	44	72	84	103	564	280	124	147	26	20	71	28
29	41	71	83	94	------	267	160	143	25	19	61	37
30	38	73	78	87	------	265	221	137	23	44	57	30
31	37	------	76	91	------	255	------	141	------	102	50	------
TOTAL	1,274	2,979	2,963	2,885	6,171	13,312	6,488	7,805	2,379	923	808	1,010
MEAN	41.1	99.3	95.6	93.1	220	429	216	252	79.3	29.8	26.1	33.7
MAX	129	160	164	200	564	736	364	513	162	102	71	93
MIN	24	36	67	65	63	255	120	137	23	17	13	16
CFSM	.45	1.09	1.05	1.02	2.41	4.70	2.37	2.76	.87	.33	.29	.37
IN.	.52	1.22	1.21	1.18	2.52	5.43	2.65	3.18	.97	.38	.33	.41

CAL YR 1970 TOTAL 59,969 MEAN 164 MAX 2,290 MIN 13 CFSM 1.80 IN 24.46
WTR YR 1971 TOTAL 48,997 MEAN 134 MAX 736 MIN 13 CFSM 1.47 IN 19.99

PEAK DISCHARGE (BASE, 880 CFS).--No peak above base.

01112500 Blackstone River at Woonsocket, R.I.

LOCATION.--Lat 42°00'22", long 71°30'13", Providence County, on right bank at Woonsocket, 50 ft upstream from Peters River pressure conduit. Records include flow of Peters River.

DRAINAGE AREA.--416 sq mi.

PERIOD OF RECORD.--February 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 107.42 ft above mean sea level.

AVERAGE DISCHARGE.--42 years, 709 cfs (23. 14 inches per year), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 3,090 cfs Mar. 17 (gage height, 5.79 ft); minimum daily, 90 cfs Aug. 26.
Period of record: Maximum discharge, 32,900 cfs Aug. 19, 1955 (gage height, 21.8 ft, from floodmarks), from rating curve extended above 15,000 cfs on basis of slope-area measurement of peak flow, affected by failure of Horseshoe Dam on Mill River; minimum daily, 21 cfs Aug. 11, 1934, flow diverted around station in Hamlet Trench no included.
Maximum discharge since at least 1645, that of Aug. 19, 1955.

REMARKS.--Records good except those below 150 cfs and those for period of no gage-height record, which are fair. Flow regulated by powerplants, by West Hill Reservoir since May 1961, and by other reservoirs above station. Extremes and figures of daily discharge include flow diverted from Nashua River basin and, at times since January 1966, from Quabbin Reservoir for supply of Worcester, Mass., and prior to July 1964, flow diverted around station in Hamlet Trench. No diversion from Quabbin Reservoir during year. See table below for figures of diversion and table with station 01111200 for month-end contents of West Hill Reservoir.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1931(M). WSP 871: 1938. WSP 1051: 1931.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	164	332	325	420	2,200	1,320	866	640	184	304	180
2	125	189	321	332	400	2,110	1,220	776	585	232	235	165
3	135	446	321	325	370	1,960	1,350	884	585	218	200	150
4	156	426	600	321	335	2,050	1,420	1,240	655	179	175	140
5	164	406	576	486	349	2,090	1,300	1,120	605	161	160	130
6	140	438	500	740	430	1,810	1,210	955	504	297	150	120
7	147	339	426	655	442	1,670	1,440	848	446	184	140	110
8	140	273	367	558	527	1,740	1,660	752	442	194	130	105
9	135	244	342	482	724	1,600	1,610	848	570	160	120	100
10	130	263	346	434	740	1,440	1,620	1,240	600	145	130	120
11	130	276	346	410	645	1,410	1,530	1,380	468	140	150	100
12	125	406	353	406	595	1,330	1,440	1,170	406	135	215	150
13	120	356	349	394	752	1,270	1,320	1,140	342	140	210	665
14	120	482	335	374	1,660	1,280	1,220	1,740	318	155	150	486
15	115	536	342	385	1,490	1,390	1,060	1,650	311	189	130	438
16	156	625	325	370	1,260	2,260	941	1,500	297	165	120	328
17	184	513	459	350	1,090	2,940	860	1,950	290	152	115	266
18	140	434	510	345	997	2,650	848	1,790	269	217	110	232
19	130	390	625	370	997	2,310	384	1,520	263	232	105	202
20	120	410	605	370	1,070	2,610	872	1,300	232	238	130	179
21	115	572	549	370	1,170	2,570	924	1,150	210	204	140	181
22	115	540	473	356	1,050	2,220	764	1,120	269	165	115	197
23	283	446	426	356	1,220	2,010	691	1,050	280	157	105	166
24	707	450	430	355	1,460	1,870	645	914	257	145	95	156
25	464	396	426	335	1,250	1,720	615	849	227	140	92	150
26	321	346	402	398	1,180	1,610	595	735	251	135	90	140
27	276	319	400	605	1,450	1,530	595	655	247	130	130	135
28	232	321	380	570	2,060	1,450	595	655	191	130	250	135
29	204	311	355	510	------	1,390	718	625	184	125	350	185
30	189	318	340	459	------	1,400	934	585	174	229	250	166
31	179	------	335	435	------	1,370	------	600	------	390	200	------
TOTAL	5,827	11,624	12,996	13,181	26,163	57,250	32,101	33,606	11,218	5,667	4,996	5,977
MEAN	188	387	419	425	934	1,847	1,070	1,084	374	183	161	199
MAX	707	625	625	740	2,060	2,940	1,660	1,950	670	390	350	665
MIN	115	164	321	321	335	1,270	595	585	174	125	90	100
(†)	29.7	22.1	20.7	20.9	24.7	10.4	5.54	5.59	10.8	26.5	37.7	33.7
MEAN‡	159	366	399	404	911	1,836	1,063	1,078	362	156	123	166
CFSM‡	.38	.88	.96	.97	2.19	4.41	2.56	2.59	.87	.38	.30	.40
IN.‡	.44	.98	1.10	1.12	2.28	5.09	2.85	2.99	.97	.43	.34	.44

CAL YR 1970 TOTAL 271,998 MEAN 745 MAX 7,140 MIN 29 MEAN‡ 725 CFSM‡ 1.74 IN‡ 23.66
WTR YR 1971 TOTAL 220,606 MEAN 604 MAX 2,940 MIN 90 MEAN‡ 584 CFSM‡ 1.40 IN‡ 19.05

PEAK DISCHARGE (BASE, 3,400 CFS).--No peak above base.

† Diversion, in cubic feet per second, from Nashua River basin for municipal supply of Worcester, Mass.; records furnished by city of Worcester.
‡ Adjusted for diversion and for change in contents in West Hill Reservoir.
NOTE.--No gage- height record Aug. 3 to Sept. 12.

01112700 Blackstone River tributary at Woonsocket, R.I.

LOCATION.--Lat 42°00'18", long 71°29'23", Providence County, on left bank at edge of parking lot in Cass Park just off Cass Avenue, at Woonsocket, and 0.5 mile upstream from mouth. Prior to Dec. 8, 1970, at site 0.25 mile upstream.

DRAINAGE AREA.--2.31 sq mi.

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (from topographic map). Prior to Dec. 8, 1970, at site 0.25 mile upstream at different datum.

AVERAGE DISCHARGE.--6 years, 3.02 cfs (18.47 inches per year).

EXTREMES.--Current year: Maximum discharge, 69 cfs July 30 (gage height, 2.82 ft); no flow for many days during October.
Period of record: Maximum discharge, 285 cfs Mar. 18, 1968 (gage height, 3.52 ft, site and datum then in use), from rating curve extended above 52 cfs on basis of slope-area measurement at gage height 3.35 ft; no flow for many days during 1965, 1966, 1969, 1970.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.06	1.0	1.6	1.4	12	3.5	3.6	2.6	1.4	.19	.12
2	0	3.4	.98	1.7	1.3	10	3.7	3.6	2.2	.85	.17	.12
3	.22	7.6	.88	1.7	1.1	8.7	5.5	7.1	3.5	.44	.15	.13
4	.31	2.9	3.6	2.0	1.1	14	4.3	6.4	2.4	.36	.15	.15
5	.02	3.3	2.1	5.0	2.4	11	3.6	4.4	1.8	.36	.15	.17
6	.01	1.7	1.7	4.6	4.3	8.8	3.4	3.7	1.6	.32	.13	.17
7	0	1.2	1.2	3.4	2.6	11	8.0	3.1	1.5	.24	.13	.17
8	0	.85	1.1	2.5	6.8	10	7.3	3.3	2.0	.21	.15	.17
9	0	.82	1.1	2.1	9.0	7.9	5.9	4.2	3.6	.24	.15	.13
10	0	.56	1.2	2.0	4.8	6.7	5.3	6.0	2.1	.19	.17	.13
11	0	1.2	1.2	2.0	4.1	6.9	4.4	4.2	1.5	.19	.13	.13
12	0	.64	1.2	2.0	4.9	6.7	4.0	3.5	1.4	.17	.24	.85
13	0	2.6	1.1	1.7	17	6.5	3.6	4.9	1.1	.15	.13	3.9
14	0	5.5	1.2	1.7	15	7.0	4.0	4.3	1.1	.19	.10	1.6
15	0	3.6	1.2	1.6	8.3	7.4	3.4	3.3	1.1	.15	.10	.21
16	.47	2.6	1.1	1.5	6.6	9.2	3.2	8.2	.99	.15	.10	.15
17	.03	1.7	7.1	1.5	5.3	8.4	3.1	8.4	.92	.36	.12	.15
18	0	1.4	5.4	1.4	6.0	6.9	3.4	5.4	.71	.28	.12	.15
19	0	1.3	5.0	1.3	6.5	7.9	4.0	4.4	.71	2.2	.13	.15
20	0	3.3	5.1	1.2	8.2	12	2.9	3.8	.64	.60	.52	.15
21	0	6.5	4.1	1.2	7.1	8.2	2.7	3.7	.64	.15	.12	.19
22	.01	2.8	3.2	1.3	5.4	6.4	2.7	4.1	.56	.10	.12	.17
23	6.0	2.5	2.7	1.4	11	5.9	2.8	3.3	.48	.12	.13	.17
24	1.5	2.0	2.5	1.4	8.6	5.3	2.3	2.8	.56	.13	.12	.17
25	.66	1.6	2.4	1.5	6.8	4.6	2.3	2.6	.52	.17	.10	.17
26	.39	1.3	2.3	1.8	6.4	4.3	2.4	2.5	.60	.15	.09	.17
27	.23	1.2	2.2	2.2	14	4.2	2.4	2.4	.40	.17	.99	.17
28	.17	1.2	1.9	1.8	14	3.9	2.5	2.4	.36	.19	.60	.17
29	.11	1.2	1.8	1.6	------	4.4	4.8	2.2	.36	.19	.15	.17
30	.08	1.3	1.8	1.7	------	4.3	4.5	3.0	.36	2.1	.12	.19
31	.08	------	1.6	1.6	------	3.9	------	3.1	------	.64	.12	------
TOTAL	10.29	67.83	70.96	60.0	190.0	234.4	115.9	127.9	38.31	13.16	5.89	10.64
MEAN	.33	2.26	2.29	1.94	6.79	7.56	3.86	4.13	1.28	.42	.19	.35
MAX	6.0	7.6	7.1	5.0	17	14	8.0	8.4	3.6	2.2	.99	3.9
MIN	0	.06	.88	1.2	1.1	3.9	2.3	2.2	.36	.10	.09	.12
CFSM	.14	.98	.99	.84	2.94	3.27	1.67	1.79	.55	.18	.08	.15
IN.	.17	1.09	1.14	.97	3.06	3.77	1.87	2.06	.62	.21	.09	.17

CAL YR 1970 TOTAL 1,152.39 MEAN 3.16 MAX 51 MIN 0 CFSM 1.37 IN 18.56
WTR YR 1971 TOTAL 945.28 MEAN 2.59 MAX 17 MIN 0 CFSM 1.12 IN 15.22

PEAK DISCHARGE (BASE, 55 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-13	1845	2.79	65				
7-30	1615	2.82	69				

01114000 Moshassuck River at Providence, R.I.

LOCATION.--Lat 41°50'02", long 71°24'42", Providence County, on left bank 800 ft upstream from bridge on U.S. Highway 44, at Providence, and 0.5 mile above mouth.

DRAINAGE AREA.--23.1 sq mi.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.31 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 34.8 cfs (20.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 607 cfs Aug. 20 (gage height, 2.98 ft); minimum, 4.2 cfs Oct. 11; minimum daily, 4.3 cfs Oct. 11.
Period of record: Maximum discharge, 2,390 cfs Mar. 18, 1968 (gage height, 4.34 ft), from rating curve extended above 460 cfs; maximum gage height, 4.40 ft Aug. 1, 1967; minimum, 1.3 cfs Aug. 23, 1970; minimum daily, 1.7 cfs Aug. 10, 1970.

REMARKS.--Records good except those for periods of no gage-height record or backwater from tree, which are fair. Occasional regulation at low flow. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	10	19	21	17	82	39	43	37	24	7.3	5.7
2	5.0	71	18	23	16	71	41	39	32	20	7.3	5.3
3	5.5	129	17	22	14	66	59	87	44	12	7.3	5.7
4	12	42	29	25	13	139	46	74	41	9.3	15	5.3
5	5.3	58	21	53	30	95	39	56	28	8.5	9.3	5.1
6	6.2	35	19	49	60	72	38	46	24	8.5	7.7	5.3
7	5.7	25	18	34	40	102	113	42	24	8.5	6.9	5.7
8	5.6	22	15	30	60	103	87	58	47	10	5.7	7.3
9	5.1	21	16	27	130	74	69	76	47	9.3	5.7	6.9
10	4.9	20	19	25	50	62	56	76	28	8.5	6.1	6.5
11	4.3	30	18	26	40	68	50	64	23	7.3	7.7	6.1
12	4.5	24	19	26	35	64	48	51	20	7.7	21	18
13	5.5	48	19	23	180	61	47	51	19	7.7	6.9	7.3
14	6.2	41	19	22	130	63	44	51	19	12	5.7	35
15	6.2	37	18	21	80	64	42	43	18	8.1	5.7	9.9
16	26	31	17	19	60	79	42	95	17	7.7	5.7	7.7
17	11	28	123	17	50	67	46	104	17	19	6.5	7.3
18	7.4	26	85	17	45	57	42	70	17	18	6.5	6.9
19	6.9	24	53	16	50	98	44	56	14	50	6.9	5.7
20	6.7	30	44	15	70	137	43	50	13	28	78	5.7
21	6.8	38	37	15	55	78	41	47	13	13	12	18
22	7.0	25	32	16	45	62	42	47	14	9.9	8.9	7.7
23	122	22	29	18	80	59	38	44	13	9.3	12	6.9
24	50	22	30	16	70	55	35	38	13	7.7	6.1	7.3
25	21	20	28	18	59	56	38	37	13	7.3	6.1	6.5
26	17	20	25	30	56	55	33	36	14	9.3	6.1	5.7
27	16	19	25	25	115	51	37	41	10	30	47	6.1
28	14	18	24	20	110	44	36	39	11	9.9	15	7.3
29	13	18	23	16	------	42	56	35	11	8.1	6.9	7.7
30	12	20	21	24	------	42	52	46	11	44	5.7	7.3
31	11	------	20	22	------	43	------	42	------	14	6.5	------
TOTAL	434.6	974	900	731	1,760	2,211	1,443	1,684	652	446.6	361.2	248.9
MEAN	14.0	32.5	29.0	23.6	62.9	71.3	48.1	54.3	21.7	14.4	11.7	8.30
MAX	122	129	123	53	180	139	113	104	47	50	78	35
MIN	4.3	10	15	15	13	42	33	35	10	7.3	5.7	5.1
CFSM	.61	1.41	1.26	1.02	2.72	3.09	2.08	2.35	.94	.62	.51	.36
IN.	.70	1.57	1.45	1.18	2.83	3.56	2.32	2.71	1.05	.72	.58	.40

CAL YR 1970 TOTAL 11,656.0 MEAN 31.9 MAX 339 MIN 1.7 CFSM 1.38 IN 18.77
WTR YR 1971 TOTAL 11,846.3 MEAN 32.5 MAX 180 MIN 4.3 CFSM 1.41 IN 19.08

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-13	-	-	Unknown				
8-20	0645	2.98	607				

NOTE.--No gage-height record Jan. 13 to Feb. 24. Backwater from tree Aug. 23 to Sept. 30.

01114500 Woonasquatucket River at Centerdale, R.I.

LOCATION.--Lat 41°51'32", long 71°29'16", Providence County, on right bank 75 ft downstream from bridge on U.S. Highway 44 at Centerdale and 6.5 miles upstream from mouth.

DRAINAGE AREA.--38.3 sq mi.

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 95 ft (from topographic map).

AVERAGE DISCHARGE.--30 years, 68.4 cfs (24.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 342 cfs Mar. 4 (gage height, 3.89 ft); minimum daily, 15 cfs Oct. 19-22, Sept. 5, 6.
Period of record: Maximum discharge, 1,440 cfs Mar. 18, 1968 (gage height, 7.75 ft, from floodmarks); minimum daily, 2.1 cfs Aug. 26, 1963.
Flood of March 1936 reached a discharge of 1,000 cfs, by computation of flow over dam 0.7 mile below station.

REMARKS.--Records good. Some regulation by reservoirs above station; regulation greater prior to 1956. Negligible leakage through bypass canal.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	18	42	35	252	85	77	59	21	20	16
2	17	26	18	44	32	239	82	74	50	22	19	16
3	17	42	18	42	29	233	95	107	55	20	19	16
4	19	25	21	39	28	296	89	118	62	20	20	16
5	17	28	19	73	37	274	85	104	52	19	19	15
6	17	22	19	79	48	231	82	94	47	19	19	15
7	17	20	25	63	44	226	138	87	48	19	19	16
8	17	19	27	55	73	237	149	86	53	19	18	16
9	17	18	28	51	105	200	138	102	64	18	18	16
10	17	18	30	48	85	172	128	113	51	18	17	16
11	17	19	29	46	66	166	116	106	41	18	18	17
12	17	18	33	44	63	155	109	97	32	18	19	18
13	17	21	36	40	113	149	103	94	30	18	17	19
14	17	23	34	41	225	147	98	99	27	19	17	22
15	17	22	31	40	131	151	89	88	26	18	18	19
16	20	20	31	39	108	184	85	115	24	18	18	18
17	16	19	86	37	98	200	81	169	24	20	17	17
18	16	19	112	36	99	203	77	141	23	20	17	17
19	15	19	80	34	103	189	81	125	22	22	17	17
20	15	20	75	33	125	274	80	111	21	20	20	17
21	15	23	68	31	138	240	76	100	20	19	18	20
22	15	20	63	32	118	208	73	98	26	19	18	17
23	40	19	60	33	167	184	69	89	25	20	17	17
24	26	18	61	32	169	164	64	81	22	20	17	17
25	20	18	55	32	144	147	64	76	21	20	17	17
26	19	17	52	43	135	134	60	71	21	20	17	17
27	18	18	49	51	208	120	60	67	20	20	23	17
28	17	18	46	44	255	109	56	63	19	19	20	17
29	17	18	43	37	------	103	68	60	19	20	17	17
30	17	19	41	39	------	95	76	61	19	22	16	16
31	17	------	39	38	------	91	------	64	------	20	16	------
TOTAL	560	623	1,347	1,338	2,981	5,773	2,656	2,937	1,023	605	562	511
MEAN	18.1	20.8	43.5	43.2	106	186	88.5	94.7	34.1	19.5	18.1	17.0
MAX	40	42	112	79	255	296	149	169	64	22	23	22
MIN	15	17	18	31	28	91	56	60	19	18	16	15
CFSM	.47	.54	1.14	1.13	2.77	4.86	2.31	2.47	.89	.51	.47	.44
IN.	.54	.61	1.31	1.30	2.90	5.61	2.58	2.85	.99	.59	.55	.50

CAL YR 1970 TOTAL 25,924 MEAN 71.0 MAX 700 MIN 15 CFSM 1.85 IN 25.18
WTR YR 1971 TOTAL 20,916 MEAN 57.3 MAX 296 MIN 15 CFSM 1.50 IN 20.32

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01115100 Mosquitohawk Brook near North Scituate, R.I.

LOCATION.--Lat 41°51'05", long 71°37'24", Providence County, on right bank 10 ft downstream from culvert on Rocky Hill Road, 0.2 mile upstream from mouth, and 2.2 miles northwest of North Scituate.

DRAINAGE AREA.--3.06 sq mi.

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (from topographic map).

AVERAGE DISCHARGE.--6 years (1966-71), 5.39 cfs (23.92 inches per year).

EXTREMES.--Current year: Maximum discharge, 78 cfs Feb. 27 (gage height, 2.50 ft); no flow many days in July, August, and September.
Period of record: Maximum discharge, 630 cfs Mar. 18, 1968 (gage height, 3.40 ft), from rating curve extended above 250 cfs; no flow many days during most years.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Recording rain gage at station since June 1966 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.50	3.0	3.4	2.9	31	6.0	6.6	3.7	.05	.04	0
2	.03	.82	2.9	3.4	2.4	24	6.2	6.2	2.7	.36	.02	0
3	.03	8.0	2.8	3.6	2.1	19	8.0	9.0	3.0	.12	.01	0
4	.12	5.4	3.8	3.6	1.8	23	11	14	5.9	.06	0	0
5	.10	5.0	5.0	9.2	2.1	22	8.0	10	3.9	.05	0	0
6	.07	4.6	4.1	24	3.0	16	6.8	7.6	2.7	.03	0	0
7	.06	3.0	3.4	10	3.7	17	12	6.4	2.2	.03	0	0
8	.05	2.3	2.8	6.2	7.0	21	17	6.0	2.0	.01	0	0
9	.04	2.0	2.8	4.8	20	14	14	8.2	7.1	0	0	0
10	.04	1.8	3.3	4.4	12	11	11	12	4.5	0	0	0
11	.04	1.9	3.3	3.8	9.0	11	9.2	10	2.6	0	0	0
12	.05	2.1	2.9	3.5	12	10	7.8	7.8	1.9	0	0	0
13	.05	2.5	3.0	3.3	17	11	7.0	7.0	1.5	0	0	.27
14	.05	5.6	3.4	3.1	35	11	6.8	8.0	1.4	0	0	1.2
15	.05	5.6	3.3	3.0	25	16	6.4	6.6	1.1	0	0	.40
16	.24	5.6	2.8	2.8	17	38	6.2	9.0	.94	0	0	.14
17	.27	4.1	4.1	2.7	13	27	5.9	16	.74	0	0	.07
18	.19	3.3	5.2	2.6	10	18	5.8	13	.57	0	0	.05
19	.19	2.9	11	2.4	10	15	6.4	10	.44	0	0	.04
20	.15	2.9	10	2.2	14	37	7.4	7.9	.33	.09	0	.03
21	.14	7.6	8.0	2.2	20	21	5.8	7.1	.27	.04	0	.09
22	.14	6.4	5.6	2.3	15	15	5.2	7.6	.25	.02	0	.08
23	2.6	4.8	4.8	2.4	15	12	5.0	7.6	.22	.01	0	.05
24	4.1	4.3	4.4	2.5	25	11	5.2	5.7	.19	0	0	.03
25	2.1	3.6	4.4	2.6	15	9.0	4.6	4.9	.14	0	0	.02
26	1.3	3.1	4.3	3.1	13	8.3	4.4	4.3	.14	0	0	.02
27	.95	3.0	4.1	4.3	34	7.6	4.3	3.7	.09	0	0	.02
28	.76	3.0	4.0	4.0	42	7.1	4.2	3.5	.06	0	.01	.02
29	.65	2.9	3.7	3.6	------	6.8	8.0	3.0	.04	0	.02	.02
30	.60	3.0	3.7	3.0	------	6.4	9.0	3.2	.05	.01	0	.01
31	.50	------	3.7	3.0	------	6.2	------	4.3	------	.08	0	------
TOTAL	15.69	111.62	133.6	135.0	398.0	502.4	224.6	236.2	50.67	.96	.10	2.56
MEAN	.51	3.72	4.31	4.35	14.2	16.2	7.49	7.62	1.69	.031	.003	.085
MAX	4.1	8.0	11	24	42	38	17	16	7.1	.36	.04	1.2
MIN	.03	.50	2.8	2.2	1.8	6.2	4.2	3.0	.04	0	0	0
CFSM	.17	1.22	1.41	1.42	4.64	5.29	2.45	2.49	.55	.01	.001	.03
IN.	.19	1.36	1.62	1.64	4.84	6.11	2.73	2.87	.62	.01	.001	.03

CAL YR 1970 TOTAL 1,964.34 MEAN 5.38 MAX 117 MIN 0 CFSM 1.76 IN 23.88
WTR YR 1971 TOTAL 1,811.40 MEAN 4.96 MAX 42 MIN 0 CFSM 1.62 IN 22.02

PEAK DISCHARGE (BASE, 60 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-27	2015	2.50	78				

NOTE.--No gage-height record Mar. 30 to May 19.

01115630 Nooseneck River at Nooseneck, R.I.

LOCATION.--Lat 41°37'36", long 71°37'59", Kent County, on right bank at upstream side of bridge on State Highway 3 at Nooseneck and 5.5 miles southwest of Washington.

DRAINAGE AREA.--8.23 sq mi.

PERIOD OF RECORD.--1961-63 (occasional low-flow measurements), November 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 265 ft (from topographic map).

AVERAGE DISCHARGE.--7 years (1964-71), 15.7 cfs (25.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 102 cfs Feb. 14 (gage height, 4.15 ft); minimum, not determined; minimum daily, 2.0 cfs Sept. 5-7.
Period of record: Maximum discharge, 318 cfs Mar. 18, 1968 (gage height, 6.13 ft); minimum, 0.81 cfs Sept. 8, 9, 1964.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	5.8	9.8	10	8.7	43	20	20	16	5.3	6.6	2.4
2	2.8	11	9.4	10	8.4	37	19	19	14	8.0	5.6	2.3
3	2.8	52	9.0	10	8.0	34	30	33	14	6.3	5.1	2.2
4	3.9	20	11	10	7.7	52	25	33	14	5.5	5.4	2.1
5	3.4	22	11	35	8.4	45	22	25	13	5.2	5.7	2.0
6	3.4	16	10	37	23	36	20	22	12	4.8	5.0	2.0
7	3.3	13	9.5	22	17	44	51	21	11	4.5	4.3	2.0
8	3.3	12	9.0	17	29	51	50	21	11	4.2	4.1	2.2
9	3.3	11	8.5	14	36	37	35	30	14	3.8	3.8	3.0
10	3.3	9.4	9.0	13	23	33	30	26	13	3.6	3.4	3.0
11	3.3	10	8.8	12	17	33	28	23	11	3.4	3.4	2.7
12	3.3	10	9.0	12	17	33	26	22	11	3.4	4.7	3.9
13	3.4	15	9.6	12	33	32	26	20	10	3.1	3.9	10
14	3.4	35	9.6	11	65	31	23	20	9.7	3.8	3.5	13
15	3.6	20	9.0	11	32	33	23	18	9.3	3.4	3.2	7.4
16	8.4	19	8.4	10	26	39	23	25	8.8	3.3	3.1	6.1
17	7.1	15	20	9.4	24	34	22	38	8.5	3.3	2.9	5.6
18	5.3	13	50	8.6	23	30	21	26	8.0	3.1	2.7	5.1
19	5.1	12	30	8.0	24	29	21	23	7.3	11	2.6	4.6
20	4.6	12	22	7.5	27	57	20	21	7.1	38	4.6	4.1
21	4.6	19	18	7.2	28	38	19	20	7.0	11	3.6	5.1
22	4.6	14	16	8.0	24	32	18	21	6.8	8.7	3.2	4.8
23	24	13	15	8.6	39	30	18	19	6.8	7.7	2.7	4.1
24	30	12	15	8.8	33	28	17	17	6.4	7.0	2.5	3.9
25	11	11	14	8.7	27	26	17	16	5.7	6.8	2.2	3.6
26	8.7	11	13	13	26	25	17	16	5.8	6.8	2.4	3.3
27	8.0	10	12	13	58	24	16	15	5.4	6.7	3.5	3.3
28	7.4	10	12	9.8	56	23	16	14	5.0	5.8	4.0	3.1
29	6.8	10	11	9.6	-------	23	22	14	5.0	5.6	3.2	3.0
30	6.4	10	10	13	-------	22	22	16	4.9	7.4	2.9	2.8
31	6.1	-------	10	11	-------	21	-------	17	-------	8.1	2.6	-------
TOTAL	197.6	453.2	418.6	390.2	748.2	1,055	717	671	281.5	208.6	116.4	122.7
MEAN	6.37	15.1	13.5	12.6	26.7	34.0	23.9	21.6	9.38	6.73	3.75	4.09
MAX	30	52	50	37	65	57	51	38	16	38	6.6	13
MIN	2.8	5.8	8.4	7.2	7.7	21	16	14	4.9	3.1	2.2	2.0
CFSM	.77	1.83	1.64	1.53	3.24	4.13	2.90	2.62	1.14	.82	.46	.50
IN.	.89	2.05	1.89	1.76	3.38	4.77	3.24	3.03	1.27	.94	.53	.55

CAL YR 1970 TOTAL 6,713.8 MEAN 18.4 MAX 145 MIN 2.5 CFSM 2.24 IN 30.35
WTR YR 1971 TOTAL 5,380.0 MEAN 14.7 MAX 65 MIN 2.0 CFSM 1.79 IN 24.32

PEAK DISCHARGE (BASE, 130 CFS).--No peak above base.

NOTE.--No gage-height record Nov. 25 to Jan. 15.

01115770 Carr River near Nooseneck, R.I.

LOCATION.--Lat 41°38'35", long 71°36'30", Kent County, on left bank at upstream side of bridge on Burnt Sawmill Road, 1.5 miles northeast of Nooseneck, and 4 miles southwest of Washington.

DRAINAGE AREA.--6.73 sq mi.

PERIOD OF RECORD.--1961-63 (occasional low-flow measurements), November 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (from topographic map). Prior to Nov. 27, 1963, reference point at site 75 ft upstream at datum 9 ft higher.

AVERAGE DISCHARGE.--7 years (1964-71), 10.0 cfs (20.18 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 56 cfs Apr. 7 (gage height, 4.47 ft); maximum gage height, 4.61 ft Feb. 14 (backwater from debris); minimum discharge, 0.84 cfs Sept. 7, 10; minimum daily, 0.84 cfs Sept. 7.
Period of record: Maximum discharge, 221 cfs Mar. 18, 1968 (gage height, 6.50 ft); minimum, 0.30 cfs Aug. 25, 26, 1968; minimum daily, 0.36 cfs Aug. 18, Sept. 12, 1965.

REMARKS.--Records good. Flow regulated by Carr Pond and other ponds above station. Diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	4.3	6.4	7.4	6.4	32	13	13	11	3.2	3.9	1.1
2	2.9	8.8	6.4	6.9	5.9	25	13	12	10	5.2	3.2	1.1
3	2.5	41	5.9	7.2	5.4	22	18	16	9.5	4.9	2.8	1.0
4	2.5	33	7.2	7.7	4.7	30	18	22	9.5	4.4	2.8	1.0
5	2.5	24	7.2	22	5.4	33	15	18	8.9	3.9	3.0	1.0
6	2.3	14	6.7	26	9.1	27	14	14	8.2	3.9	3.0	1.0
7	2.3	9.5	6.4	19	9.3	27	33	12	7.8	3.6	2.7	.94
8	2.3	7.9	5.7	12	17	32	39	12	8.2	3.4	2.4	.90
9	2.2	6.9	5.4	9.3	31	28	26	16	10	3.4	2.2	.95
10	2.2	6.4	5.9	7.9	24	23	20	16	9.8	3.4	1.9	.95
11	2.2	6.7	5.9	8.1	13	22	18	14	8.2	3.4	1.7	.90
12	2.2	7.2	5.9	8.1	9.1	22	16	13	7.4	3.4	2.1	1.1
13	2.0	10	6.4	7.4	21	22	30	12	7.4	3.2	1.9	1.7
14	1.9	25	6.4	6.9	49	21	24	12	7.0	3.4	1.8	4.6
15	1.9	22	5.9	6.9	34	22	15	12	6.6	3.2	1.7	3.6
16	3.2	16	5.4	6.9	22	26	13	13	5.6	2.8	1.7	2.7
17	3.9	11	21	6.4	15	25	12	22	5.6	2.8	1.6	2.4
18	3.6	8.6	33	5.7	14	21	11	19	4.9	4.4	1.6	2.1
19	3.2	7.9	35	5.4	15	20	11	15	4.9	8.2	1.5	1.8
20	2.8	7.7	30	5.0	17	33	8.8	13	4.9	20	1.8	1.8
21	2.6	10	23	4.7	19	30	11	12	4.6	12	1.9	2.1
22	2.6	8.8	21	5.2	15	25	11	12	4.6	7.0	1.8	2.1
23	16	8.1	20	5.9	23	21	10	12	4.6	4.6	1.6	1.8
24	26	7.4	16	6.2	25	18	4.4	11	4.6	3.9	1.3	1.6
25	15	6.9	12	6.4	20	17	8.2	11	4.6	3.6	1.1	1.5
26	9.1	6.7	9.7	7.7	16	16	9.5	10	3.5	3.9	1.1	1.4
27	7.2	6.4	8.6	8.1	28	16	10	10	2.1	4.4	1.2	1.4
28	5.9	6.4	7.9	6.9	37	15	10	9.5	2.7	3.4	1.8	1.4
29	5.4	6.4	7.4	6.2	-------	15	12	9.5	3.0	3.0	1.9	1.3
30	4.7	6.4	6.9	6.4	-------	15	15	10	3.0	3.4	1.6	1.3
31	4.3	-------	6.9	6.7	-------	14	-------	11	-------	4.1	1.4	-------
TOTAL	150.6	351.4	357.5	262.6	510.3	715	468.9	414.0	192.7	147.4	62.0	48.44
MEAN	4.86	11.7	11.5	8.47	18.2	23.1	15.6	13.4	6.42	4.75	2.00	1.61
MAX	26	41	35	26	49	33	39	22	11	20	3.9	4.6
MIN	1.9	4.3	5.4	4.7	4.7	14	4.4	9.5	2.1	2.8	1.1	.84
MEAN†	6.25	13.0	12.9	9.78	19.5	24.3	16.9	14.4	7.47	5.91	2.87	2.47
CFSM†	.93	1.93	1.92	1.45	2.90	3.61	2.51	2.14	1.11	.88	.43	.37
IN.†	1.07	2.16	2.20	1.68	3.01	4.16	2.80	2.46	1.24	1.01	.49	.41

CAL YR 1970 TOTAL 4,320.0 MEAN 11.8 MAX 75 MIN 1.7 MEAN† 13.0 CFSM† 1.93 IN† 26.25
WTR YR 1971 TOTAL 3,680.84 MEAN 10.1 MAX 49 MIN .84 MEAN† 11.2 CFSM† 1.66 IN† 22.70

PEAK DISCHARGE (BASE, 65 CFS).--No peak above base.

† Adjusted for diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick. Records of diversion furnished by Kent County Water Authority.

01116000 South Branch Pawtuxet River at Washington, R.I.

LOCATION.--Lat 41°41'24", long 71°33'59", Kent County, on right bank 150 ft downstream from highway bridge at Washington and 0.9 mile upstream from outlet of Tiogue Lake.

DRAINAGE AREA.--63.8 sq mi.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 217.76 ft above mean sea level.

AVERAGE DISCHARGE.--31 years, 125 cfs (26.61 inches per year), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 337 cfs Mar. 5 (gage height, 2.54 ft); minimum daily, 3.4 cfs Oct. 11.
Period of record: Maximum discharge, 1,860 cfs Mar. 18, 1968 (gage height, 5.13 ft); minimum daily, 2.8 cfs Aug. 27, 1944.
Flood in March 1936 reached a discharge of 1,810 cfs, by computation of flow over dam just above gage.

REMARKS.--Records good except those below 30 cfs, which are fair. Flow regulated by Flat River Reservoir 2 miles upstream (usable capacity, 250,000,000 cu ft) and smaller reservoirs. Diversion above station from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick. See table below for figures of diversion and monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	12	74	128	114	257	134	108	131	64	12	51
2	47	67	123	128	114	270	120	134	102	66	76	49
3	4.5	91	135	128	113	268	127	211	93	16	60	49
4	11	71	138	125	111	300	175	232	90	6.7	60	6.7
5	58	73	135	142	115	328	186	192	49	17	62	3.7
6	45	15	135	139	89	308	167	159	76	78	60	9.7
7	45	11	84	135	37	267	253	141	102	44	9.1	60
8	47	34	76	132	126	317	317	102	91	40	4.5	49
9	45	96	77	132	138	308	304	182	117	40	10	47
10	5.3	58	77	128	128	274	232	232	111	7.9	71	47
11	3.4	23	79	128	125	257	178	167	96	13	57	6.3
12	11	71	11	128	67	244	194	155	47	73	58	10
13	56	67	48	125	86	236	175	152	71	46	55	60
14	49	25	132	125	159	232	171	145	96	47	7.9	60
15	49	29	132	125	143	232	163	96	73	44	11	49
16	50	78	132	125	139	236	138	141	66	46	66	49
17	6.0	69	152	122	135	249	93	270	62	8.5	55	49
18	12	67	157	122	137	249	127	215	60	9.1	53	6.0
19	56	69	147	122	137	244	152	182	11	85	53	10
20	47	76	144	119	140	274	131	153	26	73	57	55
21	47	16	139	119	141	300	127	148	83	62	7.9	50
22	45	33	136	66	149	278	120	114	66	60	10	46
23	65	93	135	9.3	213	253	108	141	62	62	64	46
24	22	73	142	30	210	240	62	145	62	11	49	46
25	19	67	139	111	208	219	105	124	64	13	53	5.0
26	67	26	139	117	195	90	120	111	10	78	55	10
27	50	74	135	115	238	34	105	102	15	60	55	50
28	52	9.9	135	110	247	108	105	93	78	60	10	44
29	52	32	132	77	------	159	120	53	62	60	11	44
30	52	83	132	11	------	138	139	76	62	71	64	44
31	6.8	------	132	33	------	138	------	114	------	13	51	------
TOTAL	1,174.0	1,603.9	3,684	3,356.3	3,954	7,327	4,647	4,590	2,136	1,368.2	1,327.4	1,111.4
MEAN	37.9	53.5	119	108	141	236	155	148	71.2	44.1	42.8	37.0
MAX	67	96	157	142	247	328	317	270	131	85	76	60
MIN	3.4	9.9	11	9.3	37	34	62	53	10	6.7	4.5	3.7
(†)	1.39	1.30	1.33	1.31	1.25	1.18	1.28	1.00	1.05	1.15	.87	.85
(‡)	106.0	229.5	206.5	102.0	240.0	257.5	261.0	257.5	229.5	210.0	149.0	96.0
MEAN††	36.8	102	112	70.6	200	244	158	148	61.4	38.0	20.9	17.4
CFSM††	.58	1.60	1.76	1.11	3.13	3.82	2.48	2.32	.96	.60	.33	.27
IN.††	.67	1.79	2.02	1.28	3.25	4.41	2.76	2.67	1.07	.69	.38	.31

CAL YR 1970 TOTAL 45,035.0 MEAN 123 MAX 971 MIN 3.4 MEAN†† 123 CFSM†† 1.93 IN†† 26.22
WTR YR 1971 TOTAL 36,279.2 MEAN 99.4 MAX 328 MIN 3.4 MEAN†† 100 CFSM†† 1.57 IN†† 21.29

† Diversion, in cubic feet per second, from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick; recor[illegible]rnished b[illegible] County Water Authority.

‡ Monthend contents, in millions of cubic feet, in Flat River Reservoir; records furnished by Quidnick Reservoir Co.

†† Adjusted for diversion and change in reservoir contents.

01116300 Furnace Hill Brook at Cranston, R.I.

LOCATION.--Lat 41°45'23", long 71°29'52", Providence County, on left bank 30 ft downstream from bridge on Phenix Avenue at Cranston and 1.0 mile upstream from mouth.

DRAINAGE AREA.--4.19 sq mi.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 145 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 7.20 cfs (23.34 inches per year).

EXTREMES.--Current year: Maximum discharge, 78 cfs Feb. 27 (gage height, 3.10 ft); minimum, 0.01 cfs Oct. 1, 2.
Period of record: Maximum discharge, 586 cfs Mar. 18, 1968 (gage height, 4.67 ft); no flow Aug. 18, 1965, and many days during summer of 1966.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	1.1	3.5	4.1	2.7	28	4.2	10	3.5	.66	.73	.55
2	.13	3.5	3.5	4.3	2.3	23	4.0	9.6	2.7	.80	.41	.45
3	.22	30	3.4	4.5	2.1	18	12	28	2.5	.59	.30	.45
4	.41	12	5.1	4.5	1.9	41	8.9	21	2.5	.55	.41	.52
5	.32	14	4.9	20	2.5	27	6.4	13	2.0	.48	.41	.41
6	.32	9.4	4.5	19	3.5	20	5.6	9.6	1.7	.45	.27	.30
7	.36	6.5	3.7	11	5.0	32	30	8.1	1.4	.37	.21	.34
8	.41	5.4	2.7	7.9	10	29	25	9.3	8.9	.27	.20	.52
9	.41	4.7	2.7	6.5	23	18	18	23	30	.21	.15	.45
10	.41	4.5	3.2	6.0	16	14	13	20	11	.21	.15	.44
11	.41	6.3	3.4	5.8	11	12	10	15	5.3	.20	.17	.50
12	.41	6.0	3.5	5.8	14	12	8.5	11	3.5	.20	.41	.90
13	.41	8.4	3.5	4.4	34	14	7.3	9.6	2.7	.18	.21	1.7
14	.41	21	3.5	3.8	32	15	7.0	11	2.1	.27	.18	.90
15	.48	11	3.5	3.6	21	18	6.1	7.7	1.9	.20	.37	.28
16	.82	9.4	3.2	3.4	15	29	5.6	23	1.7	.17	.73	.14
17	.55	6.5	23	3.1	12	19	5.3	34	1.3	.23	1.2	.12
18	.62	5.1	29	3.1	12	14	5.2	18	1.2	.23	1.2	.10
19	.69	4.7	18	2.7	15	17	6.4	12	1.0	1.0	1.3	.10
20	.75	4.9	17	2.4	19	37	5.2	9.6	.87	.66	2.0	.12
21	.75	9.4	12	2.1	15	19	4.7	7.7	.80	.37	.94	.16
22	.75	6.8	8.4	2.1	13	13	4.5	8.1	.73	.27	1.1	.14
23	11	6.0	7.6	2.2	30	11	4.3	6.4	.73	.23	1.0	.13
24	11	4.7	7.6	2.5	23	8.9	4.5	5.0	.66	.21	1.0	.13
25	4.1	4.1	6.8	2.8	16	7.0	4.2	4.2	.59	.20	.94	.13
26	2.9	3.7	6.0	3.3	17	6.7	4.1	3.8	.66	.18	.87	.13
27	2.0	3.5	5.6	3.8	45	6.1	4.0	3.3	.55	.30	1.0	.13
28	1.7	3.4	5.1	4.0	39	5.6	3.9	3.1	.48	.20	1.2	.13
29	1.4	3.2	4.5	4.0	------	5.6	15	2.5	.45	.17	.94	.13
30	1.3	3.5	4.5	3.6	------	5.3	13	3.6	.45	.87	.73	.15
31	1.1	------	4.1	3.1	------	4.7	------	4.4	------	1.2	.73	------
TOTAL	46.56	222.7	217.0	159.4	452.0	529.9	255.9	354.6	93.87	12.13	21.46	10.65
MEAN	1.50	7.42	7.00	5.14	16.1	17.1	8.53	11.4	3.13	.39	.69	.36
MAX	11	30	29	20	45	41	30	34	30	1.2	2.0	1.7
MIN	.02	1.1	2.7	2.1	1.9	4.7	3.9	2.5	.45	.17	.15	.10
CFSM	.36	1.77	1.67	1.23	3.84	4.08	2.04	2.72	.75	.09	.16	.09
IN.	.41	1.98	1.93	1.42	4.01	4.70	2.27	3.15	.83	.11	.19	.09

CAL YR 1970 TOTAL 2,341.21 MEAN 6.41 MAX 165 MIN .02 CFSM 1.53 IN 20.79
WTR YR 1971 TOTAL 2,376.17 MEAN 6.51 MAX 45 MIN .02 CFSM 1.55 IN 21.10

PEAK DISCHARGE (BASE, 135 CFS, REVISED).--No peaks above base.

01116500 Pawtuxet River at Cranston, R.I.

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, on left bank at Cranston, 0.7 mile upstream from Pocasset River.

DRAINAGE AREA.--200 sq mi.

PERIOD OF RECORD.--December 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft above mean sea level.

AVERAGE DISCHARGE.--31 years (1940-71), 393 cfs (26.68 inches per year), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 1,190 cfs Feb. 14 (gage height, 6.96 ft); minimum daily, 53 cfs July 12.
Period of record: Maximum discharge, 3,110 cfs Mar. 18, 1968 (gage height, 11.53 ft); minimum daily, 22 cfs Sept. 4, 1944.

REMARKS.--Records good. Flow regulated by powerplants and by Scituate Reservoir 13 miles upstream, Flat River Reservoir, and other reservoirs (combined usable capacity, about 6 billion cubic feet). Diversion above station from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry. See table below for figures of diversion and monthend contents in Scituate Reservoir and 5 smaller reservoirs and see table with station 01116000 for monthend contents in Flat River Reservoir. Records of chemical analyses and water temperature for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 971: 1940-42. WSP 1381: 1940-41(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	71	202	262	189	498	396	256	262	126	84	116
2	121	370	205	248	230	491	362	240	219	164	75	114
3	95	543	255	240	225	473	386	475	195	124	106	119
4	82	395	293	255	220	737	332	737	198	67	167	116
5	78	347	262	407	305	701	413	697	144	59	129	88
6	114	249	240	403	354	606	394	614	136	55	119	80
7	116	173	233	328	186	631	652	523	183	93	109	73
8	116	139	189	305	437	695	909	257	205	86	80	84
9	119	212	195	278	641	599	844	351	433	84	67	116
10	111	173	202	259	381	543	463	445	251	88	61	124
11	71	126	295	273	301	519	548	406	212	59	97	111
12	65	180	167	274	293	502	445	322	153	53	153	93
13	59	266	134	266	455	487	613	320	134	78	124	88
14	97	233	192	266	836	451	594	327	176	88	111	328
15	116	153	255	270	385	466	409	249	153	84	80	186
16	147	226	251	248	332	550	382	293	142	78	71	131
17	129	202	628	230	309	553	320	625	134	82	100	124
18	69	195	603	235	316	540	273	814	134	63	114	129
19	71	189	396	240	332	533	357	671	106	126	116	106
20	104	222	358	235	358	808	361	599	86	370	236	84
21	80	195	339	240	362	567	349	560	111	131	126	134
22	106	131	324	233	320	546	343	289	121	104	88	111
23	619	219	316	142	543	546	332	259	124	104	86	106
24	161	205	339	119	480	516	219	301	121	95	129	106
25	97	198	301	176	411	498	202	255	126	71	119	116
26	150	150	282	289	403	414	271	240	111	69	114	95
27	136	173	270	278	580	286	248	219	84	100	170	75
28	131	153	278	255	580	248	241	219	78	102	150	95
29	131	126	278	235	———	377	296	164	109	104	102	95
30	136	164	274	180	———	381	321	186	142	139	90	97
31	86	———	270	129	———	373	———	198	———	134	114	———
TOTAL	3,837	6,281	8,736	7,795	10,764	16,135	12,575	12,111	4,783	3,180	3,487	3,440
MEAN	124	209	282	251	384	520	419	391	159	103	112	115
MAX	619	543	628	407	836	808	909	814	433	370	236	328
MIN	59	71	134	119	186	248	202	164	78	53	61	73
(†)	86.1	79.8	82.8	83.9	87.5	87.7	85.6	86.5	118	116	108	101
(‡)	4,078	4,130	4,175	4,194	4,723	5,355	5,391	5,456	5,228	4,868	4,488	4,214
MEAN††	119	357	373	303	748	851	520	500	178	77.0	55.8	90.0
CFSM††	.60	1.78	1.86	1.52	3.74	4.26	2.60	2.50	.89	.38	.28	.45
IN.††	.69	1.99	2.15	1.75	3.89	4.90	2.90	2.89	1.00	.44	.32	.50

CAL YR 1970 TOTAL 127,957 MEAN 351 MAX 2,590 MIN 59 MEAN†† 403 CFSM†† 2.02 IN†† 27.38
WTR YR 1971 TOTAL 93,124 MEAN 255 MAX 909 MIN 53 MEAN†† 345 CFSM†† 1.72 IN†† 23.43

† Diversion, in cubic feet per second, from Scituate Reservoir for municipal supply of Providence, North Providence, Cranston, Johnston, Smithfield, Warwick, West Warwick, and Coventry.

‡ Monthend contents, in millions of cubic feet, in Scituate Reservoir and 5 smaller reservoirs.

†† Adjusted for diversion and change in contents in Flat River Reservoir and in Scituate Reservoir and 5 smaller reservoirs. Records of diversion and monthend contents furnished by Providence Water Supply Board and Quidnick Reservoir Co.

01117000 Potowomut River near East Greenwich, R.I.

LOCATION.--Lat 41°38'28", long 71°26'45", Washington County, on right bank 45 ft upstream from Old Forge Dam in North Kingstown, 1.5 miles south of East Greenwich, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--23.0 sq mi.

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.42 ft above mean sea level, datum of 1929.

AVERAGE DISCHARGE.--31 years, 42.0 cfs.

EXTREMES.--Current year: Maximum discharge, 297 cfs Feb. 14 (gage height, 2.25 ft); minimum not determined, occurred June 18 (due to closing of gate at Old Forge Dam).

Period of record: Maximum discharge, 866 cfs Mar. 18, 1968 (gage height, 3.36 ft), from rating curve extended above 440 cfs; maximum gage height, 6.78 ft Aug. 31, 1954 (backwater from hurricane tidal wave); no flow Oct. 24-26, 1947, Aug. 28-30, 1960 (due to closing of gate at Old Forge Dam).

Maximum stage since at least 1915, about 8.5 ft Sept. 21, 1938 (backwater from hurricane tidal wave), from information by resident of area since 1915.

REMARKS.--Records good prior to Mar. 15, fair thereafter. Diversions above station for supply of East Greenwich, North Kingstown, Warwick, and U.S. Naval establishments; see table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 1621: 1957-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	9.1	29	35	27	114	41	46	36	9.5	12	5.1
2	3.4	18	26	35	73	94	40	39	31	11	9.2	2.8
3	4.2	114	25	34	21	85	60	72	28	11	7.4	1.6
4	9.1	80	32	36	19	153	55	91	25	9.5	7.7	1.6
5	6.0	71	34	55	42	156	52	69	23	8.4	8.2	2.8
6	4.2	57	33	114	83	116	47	54	21	7.4	7.0	3.8
7	3.8	40	29	78	58	119	109	46	20	7.4	6.4	1.7
8	3.5	31	25	58	128	152	123	43	28	6.4	5.9	1.6
9	3.3	25	24	47	107	115	87	74	21	6.4	5.4	1.6
10	3.6	21	25	43	110	93	69	70	19	6.4	5.8	1.6
11	4.2	25	24	42	65	94	61	60	18	6.4	6.2	1.6
12	4.6	26	27	43	55	100	55	51	17	5.4	8.3	1.6
13	5.1	34	28	38	97	100	51	45	16	5.4	6.4	3.3
14	4.8	52	27	34	236	93	48	48	15	6.4	7.2	11
15	5.7	73	25	34	124	87	46	44	13	6.4	6.8	11
16	14	61	23	31	80	83	43	53	12	17	6.9	7.8
17	13	47	75	27	66	78	43	113	11	7.2	7.9	4.4
18	9.8	38	149	27	64	74	42	82	5.0	5.6	7.4	4.4
19	6.8	33	102	24	68	72	41	62	10	14	4.2	4.4
20	5.4	33	81	22	76	100	41	54	12	94	1.6	3.3
21	4.9	53	65	22	85	120	40	47	14	45	1.7	3.8
22	5.2	46	54	24	70	95	39	47	12	19	6.8	2.8
23	44	39	48	27	123	80	38	46	12	12	3.8	2.8
24	87	34	52	26	129	70	37	41	12	9.0	2.4	2.8
25	39	30	50	28	89	62	36	37	12	8.0	2.8	1.6
26	23	77	45	44	77	58	35	35	12	8.2	5.1	1.6
27	16	27	42	46	119	52	34	34	11	8.5	5.9	1.7
28	13	27	39	30	156	49	34	32	9.5	7.9	7.8	1.6
29	11	27	37	25	------	46	47	30	9.5	7.4	7.8	1.6
30	9.8	29	35	35	------	44	57	35	9.5	13	7.8	1.6
31	10	------	33	35	------	42	------	42	------	14	5.1	------
TOTAL	381.8	1,265.1	1,342	1,253	2,471	2,796	1,551	1,642	494.5	403.2	194.9	98.9
MEAN	12.3	42.2	43.3	40.4	88.3	90.2	51.7	53.0	16.5	13.0	6.29	3.30
MAX	87	114	149	114	236	156	123	113	36	94	12	11
MIN	3.3	9.1	23	22	19	42	34	30	5.0	5.4	1.6	1.6
(†)	6.93	6.24	6.27	6.93	6.68	7.03	6.82	7.23	10.6	11.0	9.26	8.10

CAL YR 1970 TOTAL 17,844.2 MEAN 48.9 MAX 520 MIN 2.8 (†) 7.40
WTR YR 1971 TOTAL 13,893.4 MEAN 38.1 MAX 236 MIN 1.6 (†) 7.77

PEAK DISCHARGE (BASE, 190 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-9	0700	2.00	206				
2-14	0200	2.25	297				
3-4	1700	1.96	194				

† Diversions, in cubic feet per second, for supplies of East Greenwich, North Kingstown, Warwick, and U.S. Naval establishments; records furnished by U.S. Navy and Kent County Water Authority.

01117500 Pawcatuck River at Wood River Junction, R.I.

LOCATION.--Lat 41°26'42", long 71°40'53", Washington County, on right bank at downstream side of bridge on Alton-Carolina road, 0.8 mile northeast of Wood River Junction, 1.5 miles southwest of Carolina, and 2.9 miles upstream from Wood River.

DRAINAGE AREA.--100 sq mi.

PERIOD OF RECORD.--October 1940 to current year. October and November 1940 monthly discharge only, published in WSP 1301. Prior to October 1943, published as Charles River at Wood River Junction.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 43.84 ft above mean sea level.

AVERAGE DISCHARGE.--31 years, 186 cfs (25.26 inches per year).

EXTREMES.--Current year: Maximum discharge, 521 cfs Mar. 6 (gage height, 4.55 ft); minimum, 25 cfs Aug. 12; minimum daily, 32 cfs Sept. 30.
Period of record: Maximum discharge, 1,700 cfs Mar. 19, 1968 (gage height, 7.80 ft); minimum, 7.4 cfs Oct. 10, 1947; minimum daily, 15 cfs Oct. 11, 1947.

REMARKS.--Records good. Occasional regulation at low flow by powerplant and mills above station; regulation greater prior to 1969.

REVISIONS (WATER YEARS).--WSP 1051: Drainage area. WSP 1201: 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	95	174	184	151	507	235	219	177	77	77	43
2	62	102	172	184	143	490	230	211	169	78	72	41
3	62	204	167	187	134	453	240	253	167	80	68	40
4	68	268	172	189	130	480	255	305	165	77	66	40
5	68	316	174	282	147	507	255	317	162	74	69	39
6	67	307	174	354	192	521	240	297	150	71	66	39
7	64	273	167	369	199	514	310	267	145	68	64	37
8	62	236	156	345	339	510	400	245	139	65	59	37
9	59	204	151	305	441	502	420	279	143	63	56	40
10	58	187	153	273	408	482	380	297	139	61	55	39
11	58	184	151	256	367	461	350	297	131	59	50	36
12	58	184	147	246	316	451	320	279	126	59	49	37
13	56	197	147	231	311	437	299	255	122	56	60	41
14	55	282	151	218	451	424	279	245	126	57	55	45
15	56	326	151	210	462	408	259	229	122	57	52	46
16	67	347	143	202	448	390	247	239	115	54	50	45
17	74	326	207	182	400	370	237	311	112	51	49	43
18	76	296	300	174	354	360	227	339	107	51	48	42
19	74	268	358	163	333	340	223	331	103	57	48	40
20	71	246	400	153	328	410	219	301	102	90	60	37
21	67	261	380	149	347	440	211	267	100	126	63	39
22	64	256	339	149	347	430	203	251	97	128	57	37
23	99	253	300	153	374	410	195	239	95	109	54	36
24	184	234	280	158	400	370	189	225	92	86	50	35
25	199	210	265	158	409	340	185	211	92	77	48	33
26	187	194	265	169	390	310	183	197	87	72	46	33
27	158	189	241	184	417	290	181	189	84	68	50	34
28	128	184	226	163	486	275	179	183	83	65	55	34
29	112	179	210	158	------	260	191	175	80	63	50	33
30	104	177	157	156	------	250	211	173	78	66	46	32
31	99	------	187	163	------	240	------	177	------	75	44	------
TOTAL	2,680	6,985	6,705	6,467	9,224	12,632	7,553	7,803	3,610	2,240	1,736	1,153
MEAN	86.5	233	216	209	329	407	252	252	120	72.3	56.0	38.4
MAX	199	347	400	369	486	521	420	339	177	128	77	46
MIN	55	95	143	149	130	240	179	173	78	51	44	32
CFSM	.87	2.33	2.16	2.05	3.29	4.07	2.52	2.52	1.20	.72	.56	.38
IN.	1.00	2.60	2.49	2.41	3.43	4.70	2.81	2.90	1.34	.83	.65	.43

CAL YR 1970 TOTAL 82,761 MEAN 227 MAX 588 MIN 51 CFSM 2.27 IN 30.79
WTR YR 1971 TOTAL 68,788 MEAN 188 MAX 521 MIN 32 CFSM 1.88 IN 25.59

01117600 Meadow Brook near Carolina, R.I.

LOCATION.--Lat 41°27'59", long 71°41'26", Washington County, on right bank 50 ft upstream from culvert on Pine Hill Road and 1.5 miles northwest of Carolina.

DRAINAGE AREA.--5.53 sq mi.

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 8.62 cfs (21.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 35 cfs Feb. 27 (gage height, 3.79 ft); minimum, 0.14 cfs Sept. 30.
Period of record: Maximum discharge, 164 cfs Mar. 18, 1968 (gage height, 6.07 ft), from rating curve extended above 84 cfs; minimum, 0.07 cfs Sept. 12, 13, 1965, Sept. 19, 1968.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	2.4	7.9	8.0	6.4	28	12	9.9	7.7	2.2	1.6	.52
2	.96	3.2	7.7	8.0	5.9	24	12	9.2	7.2	3.5	1.3	.49
3	.91	13	7.4	8.0	5.4	22	13	14	7.2	3.0	1.1	.46
4	1.1	16	8.3	8.2	5.2	28	13	18	7.5	2.5	1.5	.46
5	1.1	15	8.6	18	6.2	31	12	16	6.9	2.2	1.8	.46
6	.91	14	8.2	23	9.5	27	12	13	6.4	2.0	1.4	.43
7	.86	11	7.5	19	9.7	26	22	11	5.9	1.8	1.1	.43
8	.82	9.0	6.8	15	19	31	26	11	5.3	1.7	.96	.43
9	.82	7.7	6.6	12	27	27	22	15	5.9	1.6	.86	.40
10	.82	6.9	6.6	11	20	24	19	15	5.7	1.5	.77	.37
11	.82	7.2	6.5	10	13	23	17	13	5.0	1.4	.73	.37
12	.82	7.7	6.5	9.5	11	23	15	12	4.6	1.4	1.6	.37
13	.73	8.8	6.5	9.0	15	23	15	11	4.6	1.3	1.1	.46
14	.73	17	6.5	8.2	31	22	14	11	5.5	1.4	.91	.91
15	.68	18	6.4	7.7	24	21	13	10	5.4	1.4	.82	.77
16	1.5	17	5.7	7.3	18	21	13	12	4.8	1.3	.77	.64
17	2.0	15	14	6.5	14	20	12	18	4.4	1.2	.68	.55
18	1.5	13	26	6.2	14	18	11	17	4.2	1.2	.61	.52
19	1.3	12	23	5.7	15	17	11	14	3.8	3.2	.58	.46
20	1.1	11	20	5.5	15	25	11	12	3.7	15	1.1	.43
21	1.1	13	17	5.3	18	25	11	11	3.6	9.2	1.0	.43
22	1.1	13	15	5.6	18	22	10	11	3.5	4.2	.77	.43
23	4.8	12	13	6.2	21	20	9.7	10	3.3	2.5	.68	.37
24	10	10	13	6.0	24	18	9.3	9.7	3.2	1.8	.61	.31
25	9.2	9.4	13	6.4	20	17	9.3	9.2	2.9	1.6	.58	.28
26	6.1	8.7	12	7.4	18	16	9.2	9.0	2.6	1.6	.55	.26
27	4.5	8.5	11	8.8	25	15	8.8	8.5	2.4	1.6	.61	.24
28	3.6	8.3	9.9	7.2	34	15	8.6	8.5	2.2	1.4	.86	.22
29	3.0	8.1	9.0	6.9	------	14	9.9	8.2	2.0	1.1	.77	.20
30	2.7	7.9	8.5	7.2	------	13	11	8.0	1.9	1.9	.58	.16
31	2.5	------	8.0	7.2	------	13	------	8.0	------	2.2	.55	------
TOTAL	69.04	323.8	326.1	280.0	461.8	669	391.8	363.2	139.3	79.9	28.85	12.83
MEAN	2.23	10.8	10.5	9.03	16.5	21.6	13.1	11.7	4.64	2.58	.93	.43
MAX	10	18	26	23	34	31	26	18	7.7	15	1.8	.91
MIN	.68	2.4	5.7	5.3	5.2	13	8.6	8.0	1.9	1.1	.55	.16
CFSM	.40	1.95	1.90	1.63	2.98	3.91	2.37	2.12	.84	.47	.17	.09
IN.	.46	2.18	2.19	1.88	3.11	4.50	2.64	2.44	.94	.54	.19	.09

CAL YR 1970 TOTAL 3,760.98 MEAN 10.3 MAX 86 MIN .55 CFSM 1.86 IN 25.30
WTR YR 1971 TOTAL 3,145.62 MEAN 8.62 MAX 34 MIN .16 CFSM 1.56 IN 21.16

PEAK DISCHARGE (BASE, 36 CFS, REVISED).--No peak above base.

PAWCATUCK RIVER BASIN

01117800 Wood River near Arcadia, R.I.

LOCATION.--Lat 41°34'26", long 71°43''6", Washington County, on left bank at upstream side of bridge on Ten Rod Road, 1.8 miles northwest of Arcadia, and 4.5 miles north of Hope Valley.

DRAINAGE AREA.--35.2 sq mi.

PERIOD OF RECORD.--January 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (from topographic map)

AVERAGE DISCHARGE.--7 years, 62.5 cfs (24.11 inches per year).

EXTREMES.--Current year: Maximum discharge, 233 cfs Feb. 14 (gage height, 5.02 ft); minimum, 10 cfs Aug. 24, 25, 26, 27, Sept. 4, 5, 6, 7, 8, 9. Period of record: Maximum discharge, 896 cfs Mar. 18, 1968 (gage height, 8.64 ft); minimum, about 5.8 cfs about Sept. 8, 9, 1964.

REMARKS.--Records good. Records of suspended-sediment loads for the water year 1971 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	41	42	37	155	80	82	57	23	26	12
2	15	26	40	43	34	171	82	80	53	30	23	11
3	14	111	37	42	31	150	105	116	53	26	21	11
4	17	81	45	42	29	176	115	124	65	23	21	11
5	15	84	47	84	36	171	105	110	57	22	22	10
6	14	68	45	95	48	157	96	100	43	21	20	10
7	13	57	41	82	47	166	160	91	41	20	18	11
8	13	47	36	76	73	186	190	87	40	19	17	10
9	13	40	35	66	99	165	160	105	47	19	16	11
10	12	35	36	62	99	146	140	104	46	17	15	14
11	12	36	35	57	82	139	125	101	41	17	15	12
12	12	36	37	53	82	133	115	94	38	17	18	15
13	12	46	39	48	107	129	110	89	38	17	17	30
14	12	94	37	48	219	125	102	88	38	18	16	42
15	12	86	35	45	183	127	97	80	35	17	15	30
16	17	81	32	41	141	139	93	94	34	16	14	23
17	18	73	75	39	111	140	90	129	32	16	13	20
18	15	63	97	38	102	131	86	118	29	16	13	18
19	14	56	85	36	190	124	87	106	28	33	12	16
20	14	53	82	33	197	190	84	93	27	79	16	15
21	13	72	76	32	117	174	81	86	27	41	14	18
22	13	78	69	34	111	155	78	84	26	30	13	19
23	46	73	64	36	134	138	75	80	25	25	12	19
24	76	65	65	35	138	124	73	74	25	22	11	16
25	51	56	59	35	127	114	74	71	24	22	11	14
26	37	49	55	42	119	108	72	68	24	22	10	14
27	30	45	52	48	172	104	70	62	22	22	13	13
28	24	42	47	44	213	100	69	54	22	20	16	13
29	22	42	44	39	------	97	83	53	22	19	15	12
30	20	42	42	42	------	98	86	56	21	23	13	12
31	18	------	41	40	------	82	------	59	------	29	13	------
TOTAL	629	1,754	1,571	1,499	2,888	4,345	2,983	2,738	1,080	741	489	481
MEAN	20.3	58.5	50.7	48.4	103	140	99.4	88.3	36.0	23.9	15.8	16.0
MAX	76	111	97	95	219	196	190	129	65	79	26	42
MIN	12	17	32	32	29	82	69	53	21	16	10	10
CFSM	.58	1.66	1.44	1.38	2.93	3.98	2.82	2.51	1.02	.68	.45	.45
IN.	.66	1.85	1.66	1.59	3.05	4.59	3.15	2.89	1.14	.78	.52	.51

CAL YR 1970 TOTAL 27,149 MEAN 74.4 MAX 504 MIN 12 CFSM 2.11 IN 28.69
WTR YR 1971 TOTAL 21,198 MEAN 58.1 MAX 219 MIN 10 CFSM 1.65 IN 22.40

PEAK DISCHARGE (BASE, 250 CFS).--No peak above base.

01118000 Wood River at Hope Valley, R.I.

LOCATION.--Lat 41°29'53", long 71°43'01", Washington County, on right bank 0.2 mile downstream from highway bridge at Hope Valley and 6.6 miles upstream from mouth.

DRAINAGE AREA.--72.4 sq mi.

PERIOD OF RECORD.--August to December 1909 (gage heights only), March 1941 to current year. Records of daily discharge for August to December 1909, published in WSP 261, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 65 ft (from topographic map). August to December 1909, nonrecording gage at site 1,000 ft upstream at different datum.

AVERAGE DISCHARGE.--30 years, 145 cfs (27.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 483 cfs Feb. 14, 28 (gage height, 4.06 ft); minimum, 16 cfs Oct. 15, 16.
Period of record: Maximum discharge, 1,720 cfs Mar. 18, 1968 (gage height, 8.26 ft), from rating curve extended above 970 cfs; minimum, 4.4 cfs Oct. 18, 1941; minimum daily, 10 cfs Oct. 13, 1941.
Maximum stage since 1711, at least 12.4 ft in February 1886. Flood of November 1927 reached a stage of 11.7 ft, and flood of March 1936 reached a discharge of 1,540 cfs.

REMARKS.--Records excellent. Some regulation at low flow by mills and ponds above station until 1952; regulation greater prior to 1948.

REVISIONS (WATER YEARS).--WSP 1201: 1948(P). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	49	107	107	94	400	161	166	122	43	63	26
2	48	54	103	109	89	340	166	157	114	54	51	26
3	42	238	99	107	80	306	208	222	114	51	45	26
4	41	225	111	107	75	359	227	282	128	44	44	26
5	56	195	118	192	92	393	206	234	122	42	44	25
6	43	179	114	246	124	336	190	202	101	41	41	25
7	38	142	103	206	124	338	308	183	94	39	38	26
8	44	109	94	179	197	405	389	175	90	36	36	25
9	40	116	92	161	253	349	313	220	96	36	34	25
10	36	109	92	150	220	301	272	225	94	36	32	24
11	34	107	92	142	181	286	246	211	85	34	34	24
12	33	111	96	135	172	279	225	190	79	34	42	24
13	33	124	98	124	208	272	211	179	80	33	38	27
14	29	204	94	124	435	260	199	183	90	37	35	45
15	18	202	90	118	363	253	190	168	83	36	31	56
16	21	197	83	114	289	267	181	183	75	37	29	45
17	24	168	166	103	234	265	175	274	72	36	29	37
18	23	150	255	99	215	250	170	248	68	36	29	33
19	23	137	215	94	211	241	170	213	63	68	28	31
20	29	153	192	87	222	359	168	190	61	282	30	30
21	28	172	177	83	250	361	164	175	59	175	31	29
22	23	179	164	87	236	306	157	172	56	92	30	30
23	80	166	153	92	262	272	150	166	55	68	28	30
24	208	150	153	92	296	248	146	150	55	58	26	29
25	150	135	146	92	262	229	148	144	53	53	26	27
26	101	122	137	105	253	215	146	142	50	51	26	26
27	79	118	128	120	333	206	144	133	48	53	27	26
28	66	114	120	103	460	199	139	122	45	47	27	25
29	59	109	114	99	------	195	161	116	43	41	27	25
30	54	109	109	105	------	175	175	120	42	54	27	25
31	51	------	103	105	------	164	------	126	------	71	27	------
TOTAL	1,631	4,343	3,918	3,787	6,230	8,829	5,905	5,671	2,337	1,818	1,055	878
MEAN	52.6	145	126	122	223	285	197	183	77.9	58.6	34.0	29.3
MAX	208	238	255	246	460	405	389	282	128	282	63	56
MIN	18	49	83	83	75	164	139	116	42	33	26	24
CFSM	.73	2.00	1.74	1.69	3.08	3.94	2.72	2.53	1.08	.81	.47	.40
IN.	.84	2.23	2.01	1.95	3.20	4.54	3.03	2.91	1.20	.93	.54	.45

CAL YR 1970 TOTAL 57,690 MEAN 158 MAX 1,260 MIN 18 CFSM 2.18 IN 29.64
WTR YR 1971 TOTAL 46,402 MEAN 127 MAX 460 MIN 18 CFSM 1.75 IN 23.84

PEAK DISCHARGE (BASE, 550 CFS).--No peak above base.

01118500 Pawcatuck River at Westerly, R.I.

LOCATION.--Lat 41°23'01", long 71°50'01", Washington County, on left bank at Westerly, 2.1 miles downstream from Shunock River.

DRAINAGE AREA.--295 sq mi.

PERIOD OF RECORD.--November 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.76 ft below mean sea level, datum of 1929.

AVERAGE DISCHARGE.--31 years, 549 cfs (25.27 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 1,490 cfs Feb. 28 (gage height, 6.12 ft); maximum gage height, 6.70 ft Mar. 4 (backwater from tide); minimum daily discharge, 88 cfs Sept. 11, 12.

Period of record: Maximum discharge, 4,470 cfs Mar. 18, 1968 (gage height, 10.49 ft); maximum gage height, 12.16 ft Aug. 31, 1954 (backwater from tide); minimum daily discharge, 25 cfs Aug. 17, 1941.

Flood of March 1936 reached a discharge of 3,150 cfs, by computation of flow over dam 1.5 miles upstream from station. Maximum discharge since 1886 occurred in November 1927 and was possibly more than twice that of March 1936. Maximum stage since at least 1635, 15.0 ft Sept. 21, 1938 (due to hurricane tidal wave).

REMARKS.--Records good. Diurnal fluctuation at low flow prior to 1962 by mills above station; regulation much greater prior to 1958. Diversion above station for municipal supply of Westerly.

REVISIONS.--WSP 1051: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	273	495	450	388	1,440	609	567	508	217	217	113
2	145	273	482	456	376	1,320	595	554	482	226	205	110
3	145	735	469	443	336	1,210	623	644	469	226	188	104
4	160	917	488	450	320	1,310	665	840	482	226	192	104
5	160	910	508	714	336	1,400	665	868	476	213	192	104
6	155	847	508	1,030	450	1,360	630	770	443	213	184	104
7	150	721	495	889	450	1,330	805	700	412	222	172	99
8	145	637	462	707	749	1,390	1,040	658	406	205	169	99
9	145	547	436	700	1,170	1,330	1,070	728	412	192	159	96
10	145	495	430	609	1,070	1,240	986	791	412	184	146	94
11	150	469	430	574	868	1,150	882	770	394	184	143	88
12	150	482	436	547	742	1,120	784	721	382	176	158	88
13	146	495	443	521	770	1,100	728	672	364	172	154	94
14	150	952	436	502	1,210	1,040	693	651	382	176	154	107
15	150	1,000	430	476	1,220	1,000	665	637	376	172	141	107
16	184	945	430	462	1,080	959	644	644	353	172	139	110
17	205	861	567	443	592	945	616	833	331	161	129	107
18	192	763	966	430	833	903	595	868	314	158	126	104
19	184	693	938	400	758	861	574	805	304	172	123	96
20	180	651	875	400	791	1,090	567	735	299	430	150	91
21	180	707	840	382	889	1,160	560	686	288	459	143	91
22	180	721	770	359	889	1,120	540	658	278	382	136	94
23	294	686	700	364	973	1,040	528	644	273	294	126	91
24	742	651	665	370	1,060	952	508	609	263	245	120	94
25	700	581	644	370	1,010	868	508	574	258	217	117	94
26	567	554	609	388	959	805	508	554	245	201	113	94
27	450	528	560	412	1,120	749	502	536	240	192	113	91
28	370	508	540	400	1,480	721	495	508	235	184	129	91
29	320	495	508	406	------	686	521	488	222	180	129	94
30	294	488	476	382	------	665	560	488	217	192	117	94
31	273	------	462	376	------	630	------	502	------	217	113	------
TOTAL	7,561	19,585	17,498	15,412	23,289	32,894	19,666	20,701	10,520	6,851	4,598	2,947
MEAN	244	653	564	497	832	1,061	656	668	351	221	148	98.2
MAX	742	1,000	966	1,030	1,480	1,440	1,070	868	508	450	217	113
MIN	145	273	430	359	320	630	495	488	217	158	113	88
MEAN†	247	656	568	500	835	1,065	659	671	355	226	153	102
CFSM†	.84	2.22	1.93	1.69	2.83	3.61	2.23	2.27	1.20	.77	.52	.35
IN.†	.97	2.48	2.22	1.96	2.95	4.16	2.49	2.62	1.34	.88	.60	.39

CAL YR 1970 TOTAL 215,875 MEAN 591 MAX 3,030 MIN 127 MEAN† 595 CFSM† 2.02 IN† 27.39
WTR YR 1971 TOTAL 181,522 MEAN 497 MAX 1,480 MIN 88 MEAN† 501 CFSM† 1.70 IN† 23.07

† Adjusted for diversion for municipal supply of Westerly. Diversion records furnished by Westerly Department of Public Works.

01123600 Quinebaug River below Westville Dam, near Southbridge, Mass.

LOCATION.--Lat 42°04'58", long 72°03'27", Worcester County, on right bank 200 ft downstream from Westville Dam, 1 mile upstream from McKinstry Brook, and 1.3 miles west of Southbridge.

DRAINAGE AREA.--99.1 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 510 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 137 cfs (18.77 inches per year).

EXTREMES.--Current year: Maximum discharge, 463 cfs Apr. 5-8 (gage height, 5.16 ft); minimum daily, 8.3 cfs July 21.
Period of record: Maximum discharge, 1,060 cfs Feb. 10, 1970 (gage height, 6.09 ft); minimum daily, 7.3 cfs Nov. 21, 28, 1964, July 30, 1965.

REMARKS.--Records good except those for period of doubtful gage-height record, which are fair. Flow regulated by mills, by East Brimfield and Westville Lakes (see p. 122), and by other reservoirs above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	37	70	67	92	264	290	213	149	36	19	33
2	23	36	79	67	84	274	284	209	138	47	17	25
3	22	40	99	67	73	261	360	211	136	47	16	22
4	25	39	128	67	64	252	424	247	170	45	21	19
5	32	44	170	83	63	255	460	256	174	39	50	18
6	36	47	162	89	69	248	463	257	177	34	49	18
7	36	47	134	84	69	247	463	238	156	35	48	16
8	36	42	112	82	75	248	458	210	136	33	46	16
9	36	36	117	82	83	243	439	208	132	29	36	15
10	34	33	123	82	84	236	422	248	117	25	21	15
11	32	38	125	87	85	230	417	255	101	22	15	12
12	30	42	123	94	89	225	401	250	86	20	22	115
13	33	43	115	91	99	225	385	272	76	19	25	138
14	104	70	94	97	136	225	353	380	72	18	25	172
15	128	83	67	97	130	231	312	397	65	18	22	158
16	182	93	48	94	136	304	277	392	62	16	19	123
17	158	3	48	84	156	365	256	409	58	16	17	96
18	121	77	70	75	156	366	240	395	54	18	16	72
19	97	68	79	72	161	405	226	353	49	20	15	58
20	91	67	77	58	178	437	212	314	44	13	15	47
21	76	77	113	31	182	457	202	277	39	8.3	15	46
22	63	75	65	42	181	458	192	258	35	11	15	42
23	45	80	62	44	189	441	180	238	36	31	15	39
24	48	147	59	49	194	419	169	217	35	12	14	36
25	53	149	55	50	191	389	165	204	27	10	11	32
26	52	151	50	58	187	350	165	199	39	9.7	10	29
27	46	202	48	73	196	315	165	187	37	9.7	10	26
28	48	123	54	69	216	302	165	179	36	8.9	26	24
29	58	75	67	71	------	300	187	170	35	8.6	42	23
30	40	73	67	106	------	314	210	158	35	13	43	21
31	39	------	68	114	------	320	------	153	------	21	41	------
TOTAL	1,849	2,217	2,748	2,326	3,618	9,606	8,942	7,954	2,506	693.2	756	1,506
MEAN	59.6	73.9	88.6	75.0	129	310	298	257	83.5	22.4	24.4	50.2
MAX	182	202	170	114	216	458	463	409	177	47	50	172
MIN	22	33	48	31	63	225	165	153	27	8.3	10	12
MEAN†	60.3	64.3	68.9	75.6	139	330	301	256	80.6	24.2	23.2	48.9
CFSM†	.61	.65	.70	.76	1.40	3.33	3.04	2.58	.81	.24	.23	.49
IN.†	.70	.72	.80	.88	1.47	3.84	3.39	2.98	.91	.28	.27	.55

CAL YR 1970 TOTAL 64,903.0 MEAN 178 MAX 948 MIN 15 MEAN† 175 CFSM† 1.77 IN† 23.95
WTR YR 1971 TOTAL 44,721.2 MEAN 123 MAX 463 MIN 8.3 MEAN† 123 CFSM† 1.24 IN† 16.79

† Adjusted for change in contents in East Brimfield and Westville Lakes.

NOTE.--Doubtful gage-height record July 18 to Aug. 17. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01124000 Quinebaug River at Quinebaug, Conn.

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, on right bank at Quinebaug, 500 ft upstream from bridge on State Highway 197, 0.2 mile downstream from Massachusetts-Connecticut State line, 7.8 miles upstream from French River, and at mile 46.

DRAINAGE AREA.--157 sq mi.

PERIOD OF RECORD.--September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft above mean sea level.

AVERAGE DISCHARGE.--40 years, 261 cfs (22.58 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 893 cfs Mar. 16 (gage height, 4.11 ft); minimum, 10 cfs July 29, 30 (gage height, 2.10 ft).
Period of record: Maximum discharge, 49,300 cfs Aug. 19, 1955 (gage height, 18.96 ft, from floodmarks), from rating curve extended above 5,100 cfs on basis of slope-area measurement of peak flow; minimum, about 1 cfs Sept. 9, 1943, July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4, Oct. 29, 1956; minimum daily, about 1 cfs Sept. 4, 1956; minimum gage height, 1.74 ft Aug. 20, 1940.

REMARKS.--Records good. Flow regulated by East Brimfield and Westville Lakes (see p. 122), and by smaller reservoirs upstream. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	41	92	90	100	533	470	309	207	53	39	45
2	33	43	92	125	90	531	444	294	185	61	34	32
3	33	51	121	178	70	479	637	330	210	52	30	27
4	43	48	210	164	65	462	693	404	266	48	34	23
5	41	68	241	151	60	428	681	389	249	43	85	22
6	47	60	224	164	75	396	663	367	229	40	86	21
7	47	55	187	164	100	399	703	330	199	51	84	21
8	48	50	148	162	111	410	683	295	189	42	80	21
9	46	48	154	198	151	373	653	322	195	34	67	20
10	42	44	160	157	151	353	656	418	165	28	37	20
11	41	60	161	131	137	343	646	399	150	24	30	19
12	39	74	160	115	130	326	605	367	130	23	42	323
13	40	76	156	100	172	318	566	482	111	20	42	262
14	93	125	133	90	309	323	516	690	99	23	39	312
15	147	146	101	85	276	386	458	627	87	19	31	295
16	194	152	94	80	264	701	414	633	76	22	26	220
17	166	139	87	80	271	775	393	687	68	20	23	173
18	129	118	106	80	260	675	362	605	64	23	20	138
19	104	110	121	80	263	673	337	513	57	24	18	106
20	106	106	123	80	291	780	315	445	51	25	22	75
21	91	150	145	70	292	747	297	393	47	14	21	73
22	81	132	114	65	277	690	283	384	45	11	19	63
23	93	130	99	60	322	663	264	347	44	32	19	55
24	71	191	102	55	314	616	243	306	43	21	17	47
25	63	189	134	60	295	562	249	284	39	15	16	41
26	62	182	110	90	295	512	245	272	45	15	15	35
27	59	217	100	115	387	473	242	253	42	17	20	32
28	52	170	90	161	478	455	244	241	41	14	59	30
29	68	96	80	179	------	465	297	223	39	11	60	28
30	48	96	80	141	------	491	316	208	38	29	61	27
31	43	------	90	110	------	505	------	208	------	50	54	------
TOTAL	2,205	3,167	4,003	3,580	6,006	15,843	13,575	12,025	3,410	904	1,230	2,596
MEAN	71.1	106	129	115	215	511	453	388	114	29.2	39.7	86.5
MAX	194	217	241	198	478	780	703	690	266	61	86	323
MIN	33	41	80	55	60	318	242	208	38	11	15	19
MEAN†	71.7	96.4	109	116	225	231	456	387	111	31.0	38.5	85.2
CFSM†	.46	.61	.69	.74	1.43	1.47	2.90	2.47	.71	.20	.25	.54
IN.†	.53	.68	.80	.85	1.49	1.70	3.24	2.85	.79	.23	.29	.60

CAL YR 1970 TOTAL 93,576 MEAN 256 MAX 1,540 MIN 20 MEAN† 253 CFSM† 1.61 IN† 21.90
WTR YR 1971 TOTAL 68,544 MEAN 188 MAX 780 MIN 11 MEAN† 188 CFSM† 1.20 IN† 14.05

† Adjusted for change in contents in East Brimfield and Westville Lakes.

01124350 French River below Hodges Village Dam, at Hodges Village, Mass.

LOCATION.--Lat 42°07'06", long 71°52'54", Worcester County, on right bank at Hodges Village, 240 ft downstream from Hodges Village Dam, 0.8 mile west of Oxford, and 1.2 miles upstream from Little River.

DRAINAGE AREA.--31.0 sq mi.

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 480 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 43.0 cfs (18.84 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 278 cfs Mar. 17 (gage height, 2.64 ft); minimum, 5.8 cfs Oct. 2-4; minimum daily, 5.8 cfs Oct. 2, 3.
Period of record: Maximum discharge, 486 cfs Mar. 28, 1963 (gage height, 3.24 ft); no flow July 17, 1968 (caused by unusual regulation); minimum daily discharge, 2.0 cfs Aug. 7, 1963.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Hodges Village Reservoir (see p. 122).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	9.1	27	42	40	122	128	67	37	15	29	19
2	5.8	9.0	27	42	36	126	128	60	38	17	22	17
3	5.8	11	26	42	33	116	151	59	35	18	18	13
4	6.6	11	39	42	31	105	197	85	42	15	16	9.9
5	8.1	13	56	52	33	97	165	94	41	14	14	9.6
6	8.1	16	48	65	38	86	124	87	31	13	13	9.0
7	7.1	16	38	65	37	78	110	73	25	15	12	8.7
8	7.3	14	33	57	41	78	113	64	22	15	9.9	8.7
9	15	12	28	52	44	74	110	64	31	12	8.7	9.0
10	17	11	28	51	47	68	120	91	33	11	8.7	8.7
11	11	14	28	50	44	66	137	110	24	10	9.0	8.4
12	7.9	19	28	48	41	61	139	99	20	9.9	19	43
13	7.3	20	28	42	43	60	128	90	20	9.3	20	79
14	7.1	30	28	42	72	60	110	160	22	9.0	13	62
15	7.1	37	25	42	84	65	99	181	37	9.9	9.9	61
16	9.5	40	22	38	80	139	90	139	24	9.9	9.0	31
17	10	39	26	34	74	254	80	135	15	10	8.4	22
18	8.6	34	41	34	70	231	74	130	12	15	7.8	19
19	7.5	32	42	34	69	186	69	108	11	17	7.6	16
20	7.1	33	42	33	72	167	64	93	9.9	17	9.0	15
21	7.1	46	42	32	71	164	61	78	9.3	16	11	15
22	7.1	49	37	31	69	143	58	71	12	14	9.3	16
23	10	47	37	31	71	129	53	65	12	12	8.1	15
24	26	46	41	32	72	95	50	56	11	12	7.6	18
25	25	38	48	34	70	75	46	50	9.9	11	6.8	19
26	17	33	48	38	69	72	46	47	11	11	6.6	19
27	14	30	46	45	78	82	46	45	16	11	7.3	19
28	13	29	46	39	103	89	45	41	18	11	18	21
29	11	28	44	42	------	98	50	39	16	12	38	21
30	10	27	43	50	------	115	65	35	15	14	28	19
31	9.9	------	41	43	------	126	------	34	------	30	22	------
TOTAL	320.3	793.1	1,133	1,324	1,632	3,427	2,856	2,550	660.1	416.0	426.7	651.0
MEAN	10.3	26.4	36.5	42.7	58.3	111	95.2	82.3	22.0	13.4	13.8	21.7
MAX	26	49	56	65	103	254	197	181	42	30	38	79
MIN	5.8	9.0	22	31	31	60	45	34	9.3	9.0	6.6	8.4
MEAN†	10.3	26.6	36.6	42.8	58.4	111	95.0	82.1	21.9	13.4	13.9	21.7
CFSM†	.33	.86	1.18	1.38	1.88	3.58	3.06	2.65	.71	.43	.45	.70
IN.†	.38	.96	1.36	1.59	1.96	4.12	3.42	3.05	.79	.50	.52	.78

CAL YR 1970 TOTAL 19,107.3 MEAN 52.3 MAX 387 MIN 4.1 MEAN† 52.3 CFSM† 1.69 IN† 22.91
WTR YR 1971 TOTAL 16,189.2 MEAN 44.4 MAX 254 MIN 5.8 MEAN† 44.4 CFSM† 1.43 IN† 19.43

† Adjusted for change in contents in Hodges Village Reservoir.

01124500 Little River at Buffumville, Mass.

LOCATION.--Lat 42°06'57", long 71°53'26", Worcester County, on left bank 0.6 mile upstream from mouth, 0.8 mile east of Buffumville, 1.1 miles downstream from Buffumville Dam, and 1.5 miles west of Oxford.

DRAINAGE AREA.--27.7 sq mi.

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 457.00 ft above mean sea level, unadjusted (levels by Corps of Engineers).

AVERAGE DISCHARGE.--32 years, 45.1 cfs (22.11 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 182 cfs Mar. 18 (gage height, 3.91 ft); minimum, 1.5 cfs Aug. 26, 27.
Period of record: Maximum discharge, 8,340 cfs Aug. 19, 1955 (gage height, 15.53 ft), from rating curve extended above 1,200 cfs on basis of computation of peak flow over dam; minimum, 0.1 cfs Sept. 25, 26, 1957. Maximum discharge since construction of Buffumville Dam in 1958, 429 cfs Apr. 7, 1959 (gage height, 5.04 ft).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Buffumville Lake since 1958 (see p. 122) and occasionally by other reservoirs upstream. Prior to 1958, flow regulated by mill above station.

REVISIONS (WATER YEARS).--WSP 1201: 1940, 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	7.7	16	13	15	104	115	55	33	4.2	6.5	4.8
2	15	7.5	14	13	15	115	115	52	33	7.9	6.2	4.6
3	17	9.0	13	13	14	115	131	53	34	7.1	5.7	4.4
4	19	8.4	19	13	14	114	153	67	37	6.5	5.5	4.2
5	19	11	23	17	15	102	148	73	37	5.7	5.1	3.8
6	18	9.7	27	24	16	90	129	67	34	5.5	4.6	3.5
7	18	8.7	25	27	17	82	127	59	30	6.8	4.0	3.3
8	18	7.7	21	26	19	79	124	52	29	6.0	3.7	3.3
9	18	7.2	19	25	27	76	121	52	31	5.7	3.4	3.3
10	18	7.0	17	23	27	70	124	64	30	5.3	3.1	2.9
11	18	10	16	21	25	65	131	76	27	4.9	3.1	2.7
12	19	12	17	20	23	60	143	73	23	4.6	4.8	26
13	19	14	17	19	25	57	139	77	21	4.0	3.5	39
14	19	18	16	17	40	56	115	109	19	4.6	3.3	48
15	21	21	16	17	65	60	98	121	16	3.8	3.1	47
16	26	24	14	16	67	98	86	112	14	3.5	2.9	41
17	24	24	19	16	65	161	79	112	13	3.5	2.6	34
18	21	21	18	15	51	180	71	109	12	3.8	2.3	28
19	16	19	18	15	57	166	65	94	11	4.2	2.1	23
20	11	19	19	15	56	160	62	80	9.6	4.4	3.0	19
21	8.7	24	19	14	57	155	60	68	8.8	4.2	2.6	19
22	7.2	26	19	14	56	141	57	64	9.6	3.8	2.4	16
23	11	27	19	14	59	129	35	60	9.2	3.7	2.6	14
24	19	26	19	14	60	122	9.2	53	8.8	3.4	2.1	12
25	24	23	19	14	59	114	20	48	8.1	3.4	1.8	10
26	22	20	17	16	56	106	29	44	8.8	3.3	1.8	8.1
27	16	18	16	19	64	98	34	40	8.1	3.3	2.6	7.1
28	13	16	15	18	82	93	36	38	7.3	3.0	6.2	6.2
29	11	15	15	17	------	96	41	36	6.5	2.9	5.3	5.7
30	9.4	15	14	16	------	106	51	34	8.8	5.3	5.3	5.5
31	8.0	------	13	16	------	114	------	32	------	6.5	5.1	------
TOTAL	516.3	475.9	549	536	1,156	3,284	2,648.2	2,074	577.6	144.8	116.3	449.4
MEAN	16.7	15.9	17.7	17.3	41.3	106	88.3	66.9	19.3	4.67	3.75	15.0
MAX	26	27	27	27	82	180	153	121	37	7.9	6.5	48
MIN	7.2	7.0	13	13	14	56	9.2	32	6.5	2.9	1.8	2.7
MEAN†	16.0	14.9	18.4	18.3	42.0	109	85.8	65.9	16.6	4.34	5.39	15.0
CFSM†	.58	.54	.66	.66	1.52	3.94	3.10	2.38	.60	.16	.19	.54
IN.†	.67	.60	.76	.76	1.58	4.54	3.46	2.74	.67	.18	.22	.60

CAL YR 1970 TOTAL 15,851.4 MEAN 43.4 MAX 261 MIN 1.5 MEAN† 43.1 CFSM† 1.56 IN† 21.11
WTR YR 1971 TOTAL 12,526.5 MEAN 34.3 MAX 180 MIN 1.8 MEAN† 34.2 CFSM† 1.23 IN† 16.78

† Adjusted for change in contents in Buffumville Lake.
NOTE.--No gage-height record Jan. 6 to Feb. 15.

01124750 Browns Brook near Webster, Mass.

LOCATION.--Lat 42°03'24", long 71°49'51", Worcester County, on left bank 15 ft downstream from culvert on State Highway 16 and 1.8 miles east of Webster.

DRAINAGE AREA.--0.49 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 0.97 cfs (26.88 inches per year).

EXTREMES.--Current year: Maximum discharge, 4.9 cfs Mar. 16 (gage height, 1.79 ft); no flow Aug. 10, 18-26, Sept. 2-11.
Period of record: Maximum discharge, 125 cfs Mar. 18, 1968 (gage height, 2.46 ft); no flow for many days during water years 1963-65, 1968-71.

REMARKS.--Records good. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.09	.84	.44	.33	2.6	1.5	.64	.74	.19	.12	.01
2	.06	.09	.77	.36	.33	2.6	1.5	.56	.56	.27	.08	0
3	.06	.40	.77	.36	.29	2.2	1.5	.74	.64	.19	.06	0
4	.09	.29	1.2	.36	.29	2.2	1.6	1.0	.74	.14	.05	0
5	.09	.36	1.1	.64	.29	2.1	1.3	.88	.56	.12	.04	0
6	.07	.33	1.1	.64	.40	1.8	1.2	.74	.49	.12	.03	0
7	.07	.26	1.0	.64	.40	1.7	1.2	.74	.42	.12	.03	0
8	.04	.26	.92	.58	.33	1.8	1.2	.64	.64	.10	.02	0
9	.04	.26	.92	.58	.44	1.5	1.3	.74	1.3	.08	.01	0
10	.03	.26	.92	.58	.44	1.3	1.6	1.2	.64	.07	0	0
11	.03	.36	.92	.53	.40	1.4	1.9	1.2	.56	.06	.01	0
12	.03	.40	.84	.48	.40	1.3	1.8	1.2	.56	.06	.08	.37
13	.04	.40	.84	.48	.64	1.1	1.8	1.8	.49	.05	.07	.21
14	.03	.64	.84	.44	1.5	1.1	1.8	2.4	.49	.07	.03	.16
15	.04	.64	.70	.44	1.4	1.3	1.6	2.2	.42	.07	.02	.24
16	.15	.77	.64	.44	1.4	2.8	1.6	2.6	.37	.06	.01	.12
17	.15	.70	.77	.44	1.4	3.8	1.5	3.0	.37	.05	.01	.08
18	.15	.70	.84	.44	1.4	3.3	1.3	2.6	.33	.08	0	.07
19	.13	.70	.77	.40	1.4	3.0	1.3	2.4	.30	.10	0	.06
20	.11	.64	.77	.40	1.4	3.8	1.2	2.1	.27	.14	0	.05
21	.09	1.1	.70	.36	1.4	3.0	1.2	2.1	.27	.08	0	.07
22	.07	.92	.58	.36	1.4	2.8	1.2	1.9	.24	.05	0	.08
23	.53	.92	.58	.36	1.4	2.6	1.0	1.8	.24	.03	0	.07
24	.40	.92	.58	.36	1.4	2.6	.88	1.6	.24	.03	0	.05
25	.20	.92	.58	.33	1.4	2.4	.88	1.5	.21	.03	0	.04
26	.13	.84	.58	.40	1.4	2.1	.88	1.5	.24	.03	0	.04
27	.13	.84	.48	.48	1.8	1.9	.88	1.2	.21	.03	.01	.04
28	.13	.84	.48	.40	2.1	1.8	.74	1.2	.19	.03	.08	.04
29	.13	.84	.48	.40	------	1.8	.74	.88	.16	.03	.07	.04
30	.11	.84	.48	.40	------	1.6	.74	.74	.14	.19	.03	.03
31	.11	------	.44	.40	------	1.5	------	.74	------	.24	.02	------
TOTAL	3.50	17.53	23.43	13.92	27.18	66.8	38.84	44.54	13.03	2.91	.88	1.87
MEAN	.11	.58	.76	.45	.97	2.15	1.29	1.44	.43	.094	.028	.062
MAX	.53	1.1	1.2	.64	2.1	3.8	1.9	3.0	1.3	.27	.12	.37
MIN	.03	.09	.44	.33	.29	1.1	.74	.56	.14	.03	0	0
CFSM	.22	1.18	1.55	.92	1.98	4.39	2.63	2.94	.88	.19	.06	.13
IN.	.27	1.33	1.78	1.06	2.06	5.07	2.95	3.38	.99	.22	.07	.14

CAL YR 1970 TOTAL 341.79 MEAN .94 MAX 13 MIN 0 CFSM 1.92 IN 25.95
WTR YR 1971 TOTAL 254.43 MEAN .70 MAX 3.8 MIN 0 CFSM 1.43 IN 19.32

PEAK DISCHARGE (BASE, 5.0 CFS).--No peak above base.

01125000 French River at Webster, Mass.

LOCATION.--Lat 42°03'03", long 71°53'08", Worcester County, on right bank in Dudley, 50 ft upstream from Pleasant Street Bridge at Webster, and 1.1 miles upstream from Potash Brook.

DRAINAGE AREA.--85.3 sq mi.

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 406.74 ft above mean sea level.

AVERAGE DISCHARGE.--22 years (1949-71), 149 cfs (23.72 inches per year), adjusted for storage in flood-control reservoirs.

EXTREMES.--Current year: Maximum discharge, 660 cfs Mar. 17 (gage height, 7.11 ft); minimum daily, 19 cfs Aug. 27.

Period of record: Maximum discharge, 14,400 cfs Aug. 19, 1955 (gage height, 26.05 ft, from floodmarks), from rating curve extended above 2,400 cfs on basis of computation of peak flow over dam; minimum daily, 2.2 cfs Aug. 15, 1965. Maximum discharge since construction of Buffumville Reservoir in 1958, 1,020 cfs Apr. 2, 1960 (gage height, 7.56 ft); maximum gage height, 7.92 ft Mar. 21, 1968.

Flood of Mar. 19, 1936, reached a discharge of 4,700 cfs, by computation of flow over dam about 0.5 mile upstream.

REMARKS.--Records good. Flow regulated by mills, by Lake Chaubunagungamaug (estimated usable capacity, 207,000,000 cu ft), by Buffumville Lake and Hodges Village Reservoir (see p. 122), and by smaller reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1721: 1959 (adjusted monthly and yearly figures only). WRD Mass., N.H., R.I., Vt. 1969: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	31	58	79	90	394	372	169	128	45	42	32
2	32	33	56	79	82	403	365	162	128	48	39	31
3	37	34	54	77	73	397	400	167	134	43	37	29
4	47	37	98	79	68	378	482	199	142	37	36	26
5	42	47	120	113	73	336	487	223	140	32	34	23
6	43	45	118	134	84	291	424	216	124	34	33	20
7	44	43	98	134	84	255	397	196	109	40	32	20
8	43	40	81	124	99	251	391	175	111	40	29	20
9	46	36	75	116	116	230	372	175	124	37	27	20
10	53	35	70	109	111	213	378	206	116	33	26	20
11	51	51	70	103	105	199	403	244	105	30	27	20
12	45	51	73	101	105	193	412	240	96	29	32	54
13	44	56	68	94	132	181	421	240	84	29	31	152
14	43	72	68	94	181	181	352	291	75	33	33	175
15	46	119	65	92	193	190	283	403	92	32	32	172
16	57	109	60	90	199	325	247	409	96	31	30	138
17	50	103	77	81	196	568	223	445	68	31	28	103
18	46	87	94	77	190	594	199	400	49	30	26	82
19	40	79	96	77	172	535	190	339	42	33	25	61
20	34	85	96	73	181	504	181	283	37	36	24	48
21	32	108	94	70	184	484	169	240	36	36	23	61
22	30	110	92	70	175	442	162	219	40	33	23	56
23	49	112	94	72	190	397	149	196	42	32	22	48
24	72	109	94	70	196	349	109	181	40	30	21	45
25	70	93	97	72	190	294	107	167	40	28	21	42
26	61	73	96	92	184	294	115	159	42	26	20	37
27	51	61	90	105	230	298	124	154	37	28	19	37
28	46	60	90	96	298	301	124	147	40	27	21	39
29	41	58	90	94	-------	312	140	134	40	28	20	37
30	37	57	86	97	-------	342	164	126	40	36	29	36
31	34	-------	81	103	-------	369	-------	120	-------	36	34	-------
TOTAL	1,388	2,034	2,599	2,867	4,181	10,500	8,342	7,025	2,397	1,043	876	1,684
MEAN	44.8	67.8	83.8	92.5	149	339	278	227	79.9	33.6	28.3	56.1
MAX	72	119	120	134	298	594	487	445	142	48	42	175
MIN	22	31	54	70	68	181	107	120	36	26	19	20
MEAN†	44.1	67.0	84.5	93.5	150	342	275	225	77.2	33.3	30.0	56.1
CFSM†	.52	.79	.99	1.10	1.76	4.01	3.22	2.64	.91	.39	.35	.66
IN.†	.60	.88	1.14	1.26	1.83	4.62	3.60	3.05	1.01	.45	.41	.73

CAL YR 1970 TOTAL 55,383 MEAN 152 MAX 750 MIN 14 MEAN† 151 CFSM† 1.77 IN† 24.09
WTR YR 1971 TOTAL 44,936 MEAN 123 MAX 594 MIN 19 MEAN† 123 CFSM† 1.44 IN† 19.58

† Adjusted for change in contents in Buffumville and Hodges Village Reservoirs.

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

01126200 Bucks Horn Brook at Greene, R.I.

LOCATION.--Lat 41°41'35", long 71°44'38", Kent County, on left bank 35 ft upstream from culvert on State Highway 117 at Greene and 0.5 mile upstream from Warwick Brook.

DRAINAGE AREA.--5.52 sq mi.

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 410 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 10.0 cfs (24.60 inches per year).

EXTREMES.--Current year: Maximum discharge, 62 cfs Feb. 28 (gage height, 2.97 ft); minimum, 0.34 cfs Sept. 12.
Period of record: Maximum discharge, 353 cfs Mar. 18, 1968 (gage height, 5.49 ft), from rating curve extended above 79 cfs on basis of measurement of peak flow through culvert; minimum, 0.27 cfs Aug. 17-19, Sept. 10-13, 1965.

REMARKS.--Records good. Recording rain gage at station since June 1966 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	1.7	5.0	5.4	5.1	40	11	13	8.2	1.8	2.1	.48
2	.78	3.0	4.5	5.4	3.7	31	11	11	6.8	4.9	1.3	.48
3	.73	22	4.3	5.6	3.1	24	19	18	7.0	2.9	1.0	.41
4	1.1	18	6.9	6.0	2.7	24	20	27	11	2.0	.98	.41
5	1.0	12	8.3	20	6.0	35	14	19	8.4	1.7	1.4	.39
6	.83	10	6.0	16	7.0	28	12	14	6.0	1.6	1.1	.39
7	.78	6.1	5.1	11	7.6	26	25	12	5.1	1.4	.86	.39
8	.78	4.7	3.9	8.8	13	34	37	12	5.3	1.3	.78	.39
9	.78	4.0	3.8	7.8	20	27	27	19	13	1.2	.69	.39
10	.78	3.7	4.7	7.0	15	20	21	23	10	1.2	.61	.39
11	.78	4.2	5.0	6.4	12	18	16	20	6.0	1.0	.57	.36
12	.93	4.7	4.4	6.0	15	19	15	15	4.9	1.1	1.2	.57
13	1.0	7.0	4.7	5.6	20	19	14	13	4.5	.92	.98	1.9
14	.93	20	5.0	5.3	35	19	13	13	4.5	.98	.69	5.3
15	.93	15	4.7	5.3	28	20	12	12	4.0	.92	.61	3.7
16	1.6	10	3.9	5.1	21	33	11	16	3.7	.82	.57	1.5
17	1.8	7.2	13	4.5	16	31	11	33	3.4	.73	.48	1.0
18	1.4	5.6	20	3.7	15	23	11	24	3.1	.78	.44	.86
19	1.2	5.0	15	3.4	15	20	11	16	2.7	1.5	.41	.78
20	1.1	5.2	13	2.9	17	40	11	13	2.6	6.4	.65	.61
21	1.1	13	11	2.9	20	35	11	12	2.4	2.6	.73	1.0
22	1.1	11	10	3.2	18	22	10	13	2.2	1.3	.57	1.3
23	5.2	7.6	9.0	3.6	25	19	9.4	13	2.2	1.0	.48	.92
24	13	6.1	9.4	3.9	23	17	9.1	10	2.2	.92	.41	.73
25	6.3	5.0	8.2	4.2	22	16	9.4	9.6	2.0	.92	.39	.65
26	3.3	4.3	7.4	5.7	20	15	9.1	9.1	1.9	.98	.36	.61
27	2.4	4.2	6.8	7.3	32	14	8.9	8.4	1.9	1.2	.44	.61
28	3.0	4.3	6.2	7.0	55	14	8.9	8.2	1.7	1.0	1.2	.57
29	4.2	4.3	5.8	6.2	------	13	14	7.7	1.6	.86	1.2	.57
30	2.2	4.7	5.6	5.1	------	13	17	8.4	1.6	2.1	.69	.57
31	1.8	------	5.4	5.1	------	12	------	9.4	------	4.5	.57	------
TOTAL	63.66	233.6	226.0	195.4	492.2	721	428.8	451.8	139.9	52.53	24.46	28.23
MEAN	2.05	7.79	7.29	6.30	17.6	23.3	14.3	14.6	4.66	1.69	.79	.94
MAX	13	22	20	20	55	40	37	33	13	6.4	2.1	5.3
MIN	.73	1.7	3.8	2.9	2.7	12	8.9	7.7	1.6	.73	.36	.36
CFSM	.37	1.41	1.32	1.14	3.19	4.22	2.59	2.64	.84	.31	.14	.17
IN.	.43	1.57	1.52	1.32	3.32	4.86	2.89	3.04	.94	.35	.16	.19

CAL YR 1970 TOTAL 3,854.25 MEAN 10.6 MAX 140 MIN .69 CFSM 1.92 IN 25.97
WTR YR 1971 TOTAL 3,057.58 MEAN 8.38 MAX 55 MIN .36 CFSM 1.52 IN 20.61

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-28	0215	2.97	62				

Reservoirs in Thames River basin

01123350. EAST BRIMFIELD LAKE on Quinebaug River, 0.7 mile southwest of Fiskdale, Mass., 1.2 miles east of East Brimfield, completed in 1960, used for flood control, conservation, and recreation, has usable capacity of 1,400,000,000 cu ft. Records furnished by Corps of Engineers.

01123550. WESTVILLE LAKE on Quinebaug River, 1.3 miles west of Southbridge, Mass., completed in 1962, used for flood control and recreation, has usable capacity of 484,000,000 cu ft. Records furnished by Corps of Engineers.

01124300. HODGES VILLAGE RESERVOIR on French River at Hodges Village, Mass., 0.8 mile west of Oxford, completed in 1960 for flood control, has usable capacity of 577,000,000 cu ft. Records furnished by Corps of Engineers.

01124400. BUFFUMVILLE LAKE on Little River at Buffumville, Mass., 2.2 miles west of Oxford, completed in 1958, used for flood control and recreation, has usable capacity of 555,000,000 cu ft. Records furnished by Corps of Engineers.

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	East Brimfield Lake	Westville Lake	Hodges Village Reservoir	Buffumville Lake
Sept. 30, 1970	102.7	4.8	0.3	64.5
Oct. 31	104.4	4.8	.3	62.7
Nov. 30	78.6	5.8	.7	60.1
Dec. 31	26.4	5.0	.8	61.9
Jan. 31, 1971	27.4	5.6	1.0	64.5
Feb. 28	49.2	8.5	1.2	66.2
Mar. 31	104.4	7.3	1.5	74.3
Apr. 30	112.6	6.1	1.1	68.0
May 31	111.0	5.7	.7	65.3
June 30	104.4	4.8	.5	58.4
July 31	109.3	4.8	.4	57.5
Aug. 31	106.0	4.9	.7	61.9
Sept. 30	102.7	4.8	.6	61.9

01127880 Big Brook near Pittsburg, N.H.

LOCATION.--Lat 45°08'06", long 71°12'23", Coos County, on left bank 10 ft downstream from culvert on U.S. Highway 3, 0.3 mile upstream from mouth, and 11 miles northeast of Pittsburg.

DRAINAGE AREA.--6.36 sq mi.

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,680 ft (from topographic map).

AVERAGE DISCHARGE.--7 years (1964-71), 14.2 cfs (30.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 233 cfs May 11 (gage height, 3.49 ft); minimum not determined; minimum daily, 1.4 cfs Aug. 21, 22.

Period of record: Maximum discharge, 441 cfs May 3, 1967 (gage height, 3.61 ft), from rating curve extended above 110 cfs; maximum gage height, 5.02 ft Dec. 27, 1969 (ice jam); minimum discharge not determined (occurred during period of ice effect in 1968 water year); minimum daily, 1.3 cfs Mar. 8, 12, 15, 1968.

REMARKS.--Records good except those for winter period, which are fair, and those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	6.4	10	3.5	3.6	4.2	3.3	48	11	6.2	1.7	9.0
2	20	6.2	9.0	3.5	3.6	4.0	4.0	46	9.4	6.2	10	6.9
3	25	6.1	8.5	3.5	3.5	3.2	8.0	51	15	3.6	8.0	5.5
4	35	6.1	14	3.5	3.5	3.2	7.0	114	11	3.1	15	5.2
5	21	6.1	10	7.0	3.5	3.2	6.2	91	9.4	2.6	9.0	5.2
6	16	6.4	7.5	6.0	3.5	3.2	5.6	74	7.7	2.4	13	7.3
7	13	6.0	6.2	5.2	3.3	3.2	6.2	93	9.8	2.4	25	5.8
8	11	5.6	5.5	4.8	3.3	3.2	5.6	103	30	2.2	11	4.9
9	9.5	5.4	7.5	4.5	3.3	3.2	5.0	134	19	5.8	5.0	6.5
10	8.4	5.8	7.0	4.6	3.3	3.1	6.0	146	13	6.9	4.0	4.9
11	7.4	6.0	6.5	4.5	3.2	3.1	20	160	11	4.1	5.0	4.3
12	7.0	5.6	6.2	4.3	3.1	3.1	30	136	9.0	3.1	5.0	5.5
13	8.0	5.3	5.8	4.1	3.5	3.1	35	117	7.7	2.0	3.8	13
14	9.0	5.0	5.4	3.9	5.0	3.3	32	66	6.5	7.3	2.8	11
15	45	5.4	5.0	3.8	8.0	5.0	27	51	5.3	13	2.3	6.2
16	30	5.6	4.0	3.7	7.0	9.0	22	59	5.5	4.9	1.9	4.9
17	20	5.3	4.0	3.6	5.8	10	18	61	4.9	6.2	1.7	6.2
18	15	5.0	4.5	3.5	5.0	8.5	21	58	4.6	6.2	2.0	10
19	12	4.8	4.0	3.4	4.5	6.5	35	59	4.6	3.3	1.8	6.2
20	10	6.0	4.2	3.4	4.0	5.4	47	54	4.3	3.3	1.7	8.1
21	9.4	33	3.8	3.3	4.0	4.6	64	45	6.2	2.4	1.4	12
22	9.0	30	3.8	3.3	4.0	4.2	58	48	5.7	2.4	1.4	9.4
23	10	30	3.8	3.2	3.4	3.9	41	35	4.3	2.0	17	11
24	15	23	4.5	3.2	3.4	3.7	30	24	4.1	1.7	13	9.4
25	12	15	5.0	3.2	3.4	3.6	31	21	5.2	1.5	7.3	8.5
26	10	12	4.6	3.2	3.4	3.5	30	28	5.5	1.5	4.6	7.7
27	9.0	9.0	4.3	5.0	3.4	3.4	29	24	3.8	12	4.3	6.9
28	8.0	10	4.1	4.2	3.4	3.4	33	21	3.3	12	24	6.2
29	7.5	15	3.9	4.0	------	3.3	40	18	2.8	6.0	33	6.2
30	7.0	12	3.7	3.8	------	3.3	44	15	2.8	3.5	17	5.2
31	6.6	------	3.6	3.7	------	3.3	------	13	------	2.3	13	------
TOTAL	450.8	303.1	179.9	124.4	111.9	130.9	743.9	2,013	242.4	142.1	265.7	219.1
MEAN	14.5	10.1	5.80	4.01	4.00	4.22	24.8	64.9	8.08	4.58	8.57	7.30
MAX	45	33	14	7.0	8.0	10	64	160	30	13	33	13
MIN	6.6	4.8	3.6	3.2	3.1	3.1	3.3	13	2.8	1.5	1.4	4.3
CFSM	2.28	1.59	.91	.63	.63	.66	3.90	10.2	1.27	.72	1.35	1.15
IN.	2.64	1.77	1.05	.73	.65	.77	4.35	11.77	1.42	.83	1.55	1.28

CAL YR 1970 TOTAL 5,110.2 MEAN 14.0 MAX 126 MIN 1.8 CFSM 2.20 IN 29.89
WTR YR 1971 TOTAL 4,927.2 MEAN 13.5 MAX 160 MIN 1.4 CFSM 2.12 IN 28.82

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-11	1845	3.49	233				

NOTE.--No gage-height record Oct. 1 to Nov. 3, Nov. 6 to Dec. 14, Mar. 6 to Apr. 19, July 24 to Aug. 24.

01128500 Connecticut River at First Connecticut Lake, near Pittsburg, N.H.

LOCATION.--Lat 45°05'14", long 71°17'34", Coos County, on right bank 0.2 mile downstream from dam at First Connecticut Lake, 6 miles northeast of Pittsburg, and at mile 392.0.

DRAINAGE AREA.--83.0 sq mi.

PERIOD OF RECORD.--April 1917 to September 1971.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (from topographic map). Prior to Jan. 1, 1918, discharge computed from flow through gates at dam 0.2 mile upstream. Jan. 1 to July 28, 1918, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--54 years, 194 cfs (31.74 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 553 cfs Mar. 8 (gage height, 3.15 ft); minimum daily, 4.8 cfs Apr. 10.

Period of record: Maximum discharge, 7,200 cfs June 16, 1943 (gage height, 6.25 ft), from rating curve extended above 1,900 cfs on basis of computation of flow over dam at gage height 6.12 ft; maximum gage height, 6.35 ft May 5, 1925 (backwater from logging operations); minimum daily discharge, 3.1 cfs Mar. 17, 18, 1929.

REMARKS.--Records good. Flow completely regulated by First Connecticut and Second Connecticut Lakes (see p. 209).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1001: 1931-39. WSP 1231: 1921-23(M), 1925-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	312	308	271	252	490	137	7.4	14	100	155	152
2	152	311	307	271	252	519	131	7.4	15	100	155	152
3	152	310	307	271	252	529	131	8.2	16	98	155	152
4	155	310	137	271	252	522	128	9.0	17	98	155	152
5	155	309	14	267	248	516	71	9.0	17	98	155	152
6	249	308	105	267	248	508	5.4	9.0	16	100	155	152
7	420	308	308	267	248	496	5.4	9.8	16	67	155	152
8	417	307	308	267	248	522	5.4	9.8	15	48	155	152
9	414	308	307	267	248	533	5.4	11	15	46	155	152
10	411	452	307	267	248	520	4.8	11	16	48	155	152
11	410	522	307	267	244	508	5.4	11	17	48	155	152
12	410	520	307	263	252	527	6.0	12	16	48	155	152
13	411	516	306	263	260	527	6.0	12	17	48	155	152
14	408	512	305	263	256	514	6.0	12	115	46	152	152
15	293	511	304	263	256	502	6.0	13	226	48	155	152
16	17	506	304	260	256	490	6.0	13	226	48	152	152
17	17	503	303	256	256	478	6.0	13	222	48	152	152
18	18	502	303	256	256	455	6.0	13	222	48	152	152
19	74	519	302	260	256	444	6.7	13	222	48	152	152
20	218	532	303	260	252	427	7.4	13	222	48	152	152
21	218	529	303	256	252	411	7.4	13	222	48	152	152
22	218	244	301	256	252	395	7.4	13	219	48	152	152
23	218	14	303	256	252	355	6.7	14	222	48	152	152
24	218	14	303	256	252	307	6.0	15	168	48	152	152
25	218	14	303	256	389	271	6.7	15	100	48	152	152
26	248	14	301	252	509	244	6.7	16	100	131	152	152
27	315	14	299	256	500	222	6.7	18	100	196	152	152
28	315	230	299	256	495	200	6.7	16	98	155	152	152
29	314	309	296	256	------	182	7.4	14	100	155	152	152
30	314	308	295	252	------	165	7.4	14	100	155	152	152
31	312	------	280	252	------	146	------	14	------	155	152	------
TOTAL	7,850	10,038	8,735	8,101	7,941	12,925	755.0	378.6	3,090	2,470	4,754	4,560
MEAN	253	335	282	261	284	417	25.2	12.2	103	79.7	153	152
MAX	420	532	308	271	509	533	137	18	226	196	155	152
MIN	17	14	14	252	244	146	4.8	7.4	14	46	152	152
MEAN†	204	112	98.1	66.0	43.5	59.8	335	961	125	52.4	96.6	148
CFSM†	2.46	1.35	1.18	.80	.52	.72	4.04	11.6	1.51	.63	1.16	1.78
IN.†	2.84	1.51	1.36	.92	.55	.83	4.50	13.35	1.69	.73	1.34	1.99

CAL YR 1970 TOTAL 79,379.0 MEAN 217 MAX 640 MIN 5.2 MEAN† 194 CFSM† 2.34 IN† 31.77
WTR YR 1971 TOTAL 71,597.6 MEAN 196 MAX 533 MIN 4.8 MEAN† 193 CFSM† 2.33 IN† 31.60

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes.

01129200 Connecticut River below Indian Stream, near Pittsburg, N. H.

LOCATION.--Lat 45°02'25", long 71°26'37", Coos County, on right bank 1,200 ft downstream from Indian Stream, 2.5 miles west of Pittsburg, and at mile 376.5.

DRAINAGE AREA.--254 sq mi.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,150 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, 546 cfs (29.19 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,950 cfs May 5 (gage height, 4.90 ft); minimum daily, 42 cfs July 25.
Period of record: Maximum discharge, 4,580 cfs Nov. 29, 1959 (gage height, 7.07 ft), from rating curve extended above 2,000 cfs; minimum daily, 30 cfs Aug. 6, 1965.

REMARKS.--Records excellent. Flow regulated by First Connecticut and Second Connecticut Lakes and by Lake Francis 3.7 miles upstream (see p. 209).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	618	556	1,140	686	632	816	235	871	132	97	314	429
2	542	550	1,140	682	567	826	241	797	119	127	335	389
3	535	547	1,180	680	562	829	327	847	121	126	355	368
4	669	544	735	675	557	823	401	1,410	124	105	338	357
5	584	542	349	680	555	819	276	1,690	115	97	331	352
6	516	540	565	692	550	833	140	1,120	99	94	328	372
7	511	538	1,070	718	550	813	140	1,280	95	91	482	381
8	629	538	1,030	729	554	814	135	1,290	512	87	413	362
9	612	536	1,030	719	563	852	135	1,430	393	87	358	377
10	597	821	739	709	562	962	144	1,480	223	81	338	378
11	587	1,010	1,060	702	558	1,010	291	1,480	162	77	333	355
12	590	1,020	1,040	655	556	1,020	437	1,410	133	364	342	353
13	602	1,010	1,040	685	551	1,000	590	1,290	118	402	336	415
14	627	1,010	1,050	678	558	984	682	890	106	52	328	518
15	624	1,010	1,050	672	562	977	553	566	88	48	322	487
16	426	1,010	1,040	670	567	1,030	408	580	80	45	315	437
17	309	1,010	1,030	680	609	1,100	326	590	75	50	317	405
18	232	998	1,030	682	610	1,090	306	476	75	76	313	444
19	261	994	1,030	677	604	1,060	415	466	69	64	313	442
20	444	1,010	1,030	671	594	1,020	867	420	75	59	310	420
21	428	1,220	1,030	666	586	972	1,060	342	85	56	308	476
22	418	867	1,030	660	580	930	995	417	159	51	308	506
23	422	421	1,020	656	576	688	714	410	103	46	431	434
24	432	392	1,030	667	572	480	523	264	81	44	630	401
25	432	314	1,020	670	584	481	587	193	80	42	449	385
26	442	451	1,020	668	736	425	577	248	114	480	378	373
27	588	449	1,010	664	823	410	556	237	104	793	281	362
28	578	845	1,030	658	819	370	662	245	91	320	148	357
29	571	1,190	1,030	653	------	345	834	210	88	318	512	349
30	564	1,150	1,020	649	------	326	797	173	87	317	289	346
31	560	------	834	660	------	270	------	147	------	317	222	------
TOTAL	15,950	23,093	30,452	21,053	16,699	24,375	14,354	23,269	3,906	5,013	10,781	12,030
MEAN	515	770	982	679	596	786	478	751	130	162	348	401
MAX	669	1,220	1,180	729	823	1,100	1,060	1,690	512	793	630	518
MIN	232	314	349	649	550	270	135	147	69	42	148	346
MEAN†	609	383	286	175	139	241	1,199	2,483	312	125	263	327
CFSM†	2.40	1.51	1.13	.69	.55	.95	4.72	9.78	1.23	.49	1.04	1.29
IN.†	2.76	1.68	1.30	.79	.57	1.10	5.27	11.27	1.37	.57	1.19	1.44

CAL YR 1970 TOTAL 232,382 MEAN 637 MAX 2,430 MIN 43 MEAN† 558 CFSM† 2.20 IN† 29.82
WTR YR 1971 TOTAL 200,975 MEAN 551 MAX 1,690 MIN 42 MEAN† 548 CFSM† 2.16 IN† 29.32

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01129300 Halls Stream near East Hereford, Quebec

(International gaging station)

LOCATION.--Lat 45°02'41", long 71°29'54", Compton County, on right bank opposite Alain's farm, 2.5 miles downstream from East Hereford, and 3.7 miles upstream from mouth.

DRAINAGE AREA.--85 sq mi.

PERIOD OF RECORD.--October 1962 to current year in reports of Geological Survey. October 1948 to September 1962 available from Water Survey of Canada, Department of the Environment.

GAGE.--Water-stage recorder. Altitude of gage is 1,090 ft (from topographic map). Prior to Dec. 13, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 165 cfs (26.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,250 cfs May 5 (gage height, 9.50 ft), minimum, 6.7 cfs Aug. 22, 23.
Period of record: Maximum discharge observed, 4,150 cfs June 29, 1959 (gage height, 12.64 ft); minimum observed, 4 cfs Sept. 10, 1960. Flood in June 1943 reached a discharge of 21,000 cfs, by slope-area method at site 0.5 mile downstream.

REMARKS.--Records good except those for winter period, which are fair.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	56	205	49	47	62	83	1,020	74	25	9.0	70
2	158	52	211	50	46	58	88	903	64	47	32	48
3	154	50	258	51	45	52	152	1,010	64	34	46	37
4	251	47	170	52	44	52	212	1,590	68	25	30	31
5	165	42	130	54	45	58	172	1,670	64	21	24	28
6	126	43	105	140	46	66	162	1,110	54	18	18	46
7	104	45	88	150	45	67	171	1,240	48	17	107	54
8	90	54	74	130	44	63	147	1,170	404	15	58	39
9	79	45	72	135	41	62	136	1,190	224	14	31	63
10	69	36	69	140	39	58	174	1,060	120	13	21	57
11	64	48	68	97	37	57	456	939	83	12	17	38
12	58	70	66	84	36	55	723	773	66	11	24	39
13	93	60	62	82	35	55	911	698	52	11	22	125
14	117	52	60	78	50	56	903	445	46	11	18	185
15	226	56	56	74	81	69	589	311	40	13	13	169
16	343	72	54	70	140	232	409	271	36	13	12	109
17	205	70	52	67	145	363	330	246	32	12	11	84
18	130	60	51	65	92	306	359	210	29	21	9.5	94
19	100	56	48	62	78	254	707	176	26	21	8.4	85
20	79	68	47	59	71	190	1,410	145	24	19	7.2	75
21	73	551	46	57	66	158	1,470	127	34	17	7.2	152
22	70	391	45	55	63	134	1,220	236	95	13	7.2	126
23	86	391	48	54	66	124	772	218	48	12	48	83
24	105	299	52	52	66	112	578	143	34	10	114	65
25	130	202	58	51	56	101	741	114	32	9.0	58	53
26	110	152	55	50	52	97	744	166	83	9.0	34	46
27	84	145	52	49	50	100	752	150	55	14	24	40
28	73	171	51	48	60	103	975	178	36	14	208	36
29	64	285	50	47	------	94	1,170	136	28	10	449	34
30	58	220	49	48	------	90	1,000	103	24	9.0	162	32
31	54	------	48	49	------	82	------	86	------	9.0	112	------
TOTAL	3,727	3,889	2,500	2,249	1,686	3,430	17,716	17,834	2,087	499.0	1,741.5	2,133
MEAN	120	130	80.6	72.5	60.2	111	591	575	69.6	16.1	56.2	71.1
MAX	343	551	258	150	145	363	1,470	1,670	404	47	449	185
MIN	54	36	45	47	35	52	83	86	24	9.0	7.2	28
CFSM	1.41	1.53	.95	.85	.71	1.31	6.95	6.76	.82	.19	.66	.84
IN.	1.63	1.70	1.09	.98	.74	1.50	7.75	7.80	.91	.22	.76	.93

CAL YR 1970 TOTAL 55,813.3 MEAN 153 MAX 2,520 MIN 5.4 CFSM 1.80 IN 24.43
WTR YR 1971 TOTAL 59,491.5 MEAN 153 MAX 1,670 MIN 7.2 CFSM 1.92 IN 26.04

PEAK DISCHARGE (BASE, 2,300 CFS).--No peak above base.

01129500 Connecticut River at North Stratford, N.H.

LOCATION.--Lat 44°44'56", long 71°37'50", Coos County, on left bank at North Stratford, 400 ft downstream from Nulhegan River, and at mile 344.5.

DRAINAGE AREA.--799 sq mi.

PERIOD OF RECORD.--August 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 880.17 ft above mean sea level.

AVERAGE DISCHARGE.--41 years, 1,547 cfs (26.29 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 10,400 cfs May 5 (gage height, 8.91 ft); maximum gage height, 9.60 ft Dec. 24 (backwater from ice); minimum daily discharge, 165 cfs July 25.
Period of record: Maximum discharge, 28,700 cfs June 16, 1943 (gage height, 14.67 ft), from rating curve extended above 15,000 cfs; maximum gage height, 16.66 ft Mar. 13, 1936 (ice jam); minimum daily discharge, 108 cfs Sept. 29, 1960.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes and Lake Francis (see p. 209) 36 miles upstream.

REVISIONS (WATER YEARS).--WSP 781: 1934(M). WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,690	1,010	2,240	1,050	880	1,200	722	6,050	875	316	541	832
2	1,340	985	2,160	1,000	800	1,200	760	5,750	756	553	625	764
3	1,480	968	2,450	1,000	800	1,200	1,080	6,000	757	463	921	647
4	2,380	947	2,160	1,050	780	1,150	1,490	9,020	791	357	1,100	590
5	1,800	935	1,250	1,050	780	1,150	1,380	10,000	684	303	713	564
6	1,410	934	1,100	1,050	780	1,150	1,080	8,050	603	278	575	724
7	1,190	927	1,400	1,100	790	1,150	1,100	7,890	564	262	714	819
8	1,140	932	1,500	1,100	800	1,150	994	8,040	1,390	239	819	674
9	1,120	909	1,600	1,050	820	1,200	893	8,220	1,810	217	600	603
10	1,040	927	1,500	1,000	820	1,250	1,070	8,310	1,100	206	503	634
11	992	1,430	1,450	1,000	810	1,300	1,770	8,160	767	196	484	575
12	986	1,550	1,450	1,050	810	1,300	3,070	7,710	637	182	490	604
13	1,000	1,500	1,500	1,050	810	1,300	4,260	7,060	547	437	480	1,150
14	1,220	1,450	1,500	1,000	840	1,300	4,820	5,260	478	465	458	1,580
15	3,390	1,470	1,500	920	900	1,400	3,710	3,560	431	338	443	1,720
16	4,030	1,580	1,450	950	950	1,600	2,760	3,170	403	235	430	1,210
17	2,380	1,560	1,400	960	1,100	1,900	2,250	3,110	375	185	413	934
18	1,680	1,480	1,400	950	1,050	2,200	2,220	2,790	356	316	382	993
19	1,280	1,460	1,450	920	1,050	2,100	2,970	2,660	333	303	353	1,050
20	1,190	1,550	1,450	900	1,050	2,000	5,990	2,450	312	333	389	883
21	1,150	2,950	1,450	890	1,000	1,850	7,420	2,080	320	299	393	1,070
22	1,080	3,310	1,400	900	960	1,700	7,370	2,490	526	239	434	1,250
23	1,170	2,230	1,300	900	940	1,400	5,770	2,420	523	206	855	961
24	1,450	2,050	1,300	910	940	1,210	4,030	1,750	393	175	1,330	789
25	1,370	1,410	1,400	930	950	1,110	4,340	1,390	382	165	924	700
26	1,190	1,080	1,400	940	1,050	1,040	4,660	1,760	743	171	652	651
27	1,160	1,350	1,400	940	1,150	950	4,240	1,700	593	804	551	612
28	1,150	1,330	1,350	900	1,200	957	4,960	1,800	428	652	852	561
29	1,100	2,440	1,350	910	------	915	6,000	1,550	342	457	2,290	548
30	1,060	2,330	1,300	920	------	877	5,850	1,230	312	414	1,520	548
31	1,030	------	1,200	900	------	809	------	1,020	------	440	999	------
TOTAL	45,638	44,984	46,800	30,190	25,610	41,018	99,029	142,450	18,531	10,206	22,317	25,240
MEAN	1,472	1,499	1,510	974	915	1,323	3,301	4,596	618	329	720	841
MAX	4,030	3,310	2,450	1,100	1,200	2,200	7,420	10,000	1,810	804	2,290	1,720
MIN	986	909	1,100	890	780	809	722	1,020	312	165	382	548
MEAN†	1,567	1,113	814	469	457	778	4,022	6,329	800	293	635	767
CFSM†	1.96	1.39	1.02	.59	.57	.97	5.03	7.92	1.00	.37	.79	.96
IN.†	2.26	1.55	1.17	.68	.60	1.12	5.62	9.13	1.12	.42	.92	1.07

CAL YR 1970 TOTAL 601,232 MEAN 1,647 MAX 15,300 MIN 183 MEAN† 1,568 CFSM† 1.96 IN† 26.65
WTR YR 1971 TOTAL 552,053 MEAN 1,512 MAX 10,000 MIN 165 MEAN† 1,510 CFSM† 1.89 IN† 25.66

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01130000 Upper Ammonoosuc River near Groveton, N.H.

LOCATION.--Lat 44°37'30", long 71°28'10", Coos County, on left bank 75 ft upstream from highway bridge, 0.2 mile downstream from Nash Stream, and 2.8 miles northeast of Groveton.

DRAINAGE AREA.--232 sq mi.

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 469 cfs (27.45 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 4,320 cfs May 5 (gage height, 6.56 ft); minimum, 59 cfs Aug. 23.

Period of record: Maximum discharge, 24,100 cfs May 20, 1969 (gage height, 12.01 ft in gage well, 12.85 ft, from floodmarks), from rating curve extended above 5,600 cfs on basis of contracted-opening measurement of peak flow, caused by failure of dam on Nash Stream; minimum, 32 cfs Sept. 14, 1948.

Flood in March 1936 reached a stage of about 10.6 ft, from information by local residents.

REMARKS.--Records good except those for winter period, which are fair. Prior to May 21, 1969, some regulation by pond 9 miles upstream on Nash Stream. Small diversion above station for municipal supply of Berlin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	199	280	150	93	125	125	1,840	563	175	143	189
2	229	189	272	150	92	120	125	1,850	486	689	195	147
3	402	183	307	145	92	115	180	2,110	464	388	312	123
4	972	177	243	140	90	110	250	3,290	453	229	651	110
5	570	168	210	140	90	110	240	4,020	390	171	328	108
6	384	165	180	160	96	105	225	3,040	336	142	204	108
7	299	156	160	160	92	105	220	2,710	311	131	185	123
8	257	153	150	150	93	100	200	2,780	687	118	168	115
9	226	147	220	145	96	100	190	2,870	739	107	128	100
10	202	145	250	135	95	100	210	2,860	477	103	106	89
11	186	147	220	130	94	98	300	3,190	356	103	111	79
12	180	153	205	125	93	98	600	3,560	302	101	187	84
13	177	147	195	125	94	98	1,200	3,790	264	96	139	162
14	205	142	190	120	120	100	1,450	3,320	233	113	107	353
15	344	145	185	120	140	120	1,220	2,250	213	132	94	582
16	588	162	180	115	150	250	835	1,890	201	109	87	360
17	470	159	185	115	150	350	680	1,820	184	107	78	229
18	340	147	190	110	145	350	684	1,790	163	152	71	199
19	276	142	185	110	140	250	950	1,870	152	135	65	177
20	240	153	175	105	135	200	1,710	1,880	141	164	63	153
21	229	430	165	105	130	180	2,130	1,650	154	157	63	168
22	233	642	155	105	125	160	2,230	1,540	219	114	62	189
23	229	548	155	100	120	150	1,860	1,400	188	94	150	153
24	430	532	160	100	115	140	1,390	1,020	151	81	228	131
25	485	344	170	98	110	135	1,430	837	154	80	148	115
26	353	250	165	96	115	135	1,580	1,290	345	90	104	105
27	295	261	160	96	120	130	1,540	1,230	254	83	88	100
28	261	276	155	96	130	130	1,710	1,070	172	85	279	95
29	236	307	155	96	------	125	1,790	894	139	80	818	93
30	222	291	150	95	------	125	1,770	746	126	113	415	93
31	209	------	150	94	------	125	------	653	------	115	272	------
TOTAL	10,024	7,060	5,922	3,731	3,155	4,539	29,024	65,060	9,017	4,557	6,049	4,812
MEAN	323	235	191	120	113	146	967	2,099	301	147	195	160
MAX	972	642	307	160	150	350	2,230	4,020	739	689	818	582
MIN	177	142	150	94	90	98	125	653	126	80	62	79
MEAN†	326	238	194	123	116	149	970	2,101	303	150	198	163
CFSM†	1.41	1.03	.84	.53	.50	.64	4.18	9.06	1.31	.65	.85	.70
IN.†	1.62	1.14	.96	.61	.52	.74	4.67	10.45	1.46	.74	.98	.78

CAL YR 1970 TOTAL 192,532 MEAN 527 MAX 6,070 MIN 46 MEAN† 530 CFSM† 2.28 IN† 31.03
WTR YR 1971 TOTAL 152,950 MEAN 419 MAX 4,020 MIN 62 MEAN† 422 CFSM† 1.82 IN† 24.68

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-5	0400	6.56	4,320				
5-13	2000	6.36	3,950				

† Adjusted for diversion for municipal supply of Berlin. Records of diversion furnished by city of Berlin.

01131500 Connecticut River near Dalton, N.H.

LOCATION.--Lat 44°24'36", long 71°43'16", Coos County, on left bank 250 ft upstream from highway bridge, 1,200 ft downstream from dam of Gilman Paper Co., 1.2 miles downstream from Dalton, and at mile 300.1.

DRAINAGE AREA.--1,514 sq mi.

PERIOD OF RECORD.--March 1927 to current year. Published as "at Waterford, Vt." 1927-35. Records published for both sites January to September 1935.

GAGE.--Water-stage recorder. Datum of gage is 799.89 ft above mean sea level. Prior to Sept. 30, 1935, nonrecording gage at bridge 10.5 miles downstream at mean sea level. Jan. 1, 1935, to June 29, 1937, nonrecording gage at bridge 250 ft downstream at present datum. Since June 2, 1961, auxiliary water-stage recorder 10.8 miles downstream from base gage. July 11, 1956, to June 1, 1961, auxiliary nonrecording gage read hourly at same site.

AVERAGE DISCHARGE.--44 years, 2,838 cfs (25.46 inches per year), adjusted to drainage area at present site and for storage.

EXTREMES.--Current year: Maximum discharge, 17,200 cfs May 5 (gage height, 16.81 ft); minimum daily, 150 cfs July 27.
Period of record: Maximum discharge, 48,300 cfs Mar. 20, 1936 (gage height, 25.6 ft); minimum daily, 115 cfs Oct. 3, 1937.

REMARKS.--Records good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis (see p. 209), and other reservoirs. These reservoirs have a combined usable capacity of about 8.3 billion cubic feet. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 891: Drainage area. WSP 1231: 1935. WSP 1301: 1928-35(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,930	1,530	3,040	1,600	1,200	1,700	1,540	10,300	2,550	819	840	1,660
2	2,520	1,450	3,060	1,500	1,200	1,700	1,480	10,300	2,240	1,520	1,160	1,230
3	2,190	1,460	3,100	1,450	1,150	1,650	1,630	10,500	1,990	1,730	1,510	1,240
4	3,450	1,450	3,230	1,500	1,100	1,650	2,380	12,300	2,050	1,290	3,170	1,270
5	3,790	1,420	2,790	1,450	1,100	1,600	2,860	15,700	1,940	833	2,780	1,320
6	2,880	1,380	1,890	1,550	1,100	1,600	2,900	16,800	1,720	854	1,780	717
7	2,490	1,260	1,690	1,650	1,100	1,600	2,700	15,400	1,440	826	1,100	917
8	2,000	1,370	1,870	1,650	1,150	1,600	2,510	14,100	1,700	692	1,020	1,420
9	1,950	1,300	1,870	1,500	1,150	1,600	2,230	13,900	3,890	640	1,290	1,230
10	1,630	1,240	1,940	1,450	1,150	1,600	2,150	13,900	3,490	569	1,300	938
11	1,590	1,380	2,060	1,400	1,150	1,600	2,630	14,100	2,810	516	1,090	882
12	1,510	1,790	1,990	1,550	1,150	1,650	4,460	14,400	1,930	497	1,170	896
13	1,520	1,870	1,980	1,500	1,150	1,700	6,930	14,700	1,540	339	1,060	1,200
14	1,530	1,870	2,060	1,400	1,200	1,700	8,480	14,000	1,450	660	908	1,740
15	1,880	1,830	2,100	1,250	1,350	1,850	8,220	10,900	1,240	980	817	2,500
16	4,580	1,910	2,060	1,350	1,450	2,100	6,600	7,850	1,230	819	850	2,660
17	4,810	1,960	1,880	1,350	1,700	2,920	5,300	6,960	1,060	634	799	1,930
18	3,390	1,950	1,890	1,300	1,650	3,620	4,840	6,570	976	645	778	1,530
19	2,640	1,930	2,010	1,250	1,650	3,580	5,250	6,350	924	724	788	1,520
20	2,280	1,870	2,000	1,200	1,650	3,320	8,500	6,280	943	876	685	1,640
21	2,050	2,070	1,950	1,200	1,500	3,110	12,200	5,890	971	1,070	696	1,330
22	1,900	4,550	1,900	1,250	1,450	2,840	13,400	5,490	826	847	704	1,600
23	1,710	3,990	1,600	1,250	1,400	2,630	13,300	6,030	812	640	963	1,900
24	1,650	3,430	1,500	1,250	1,400	2,440	13,500	5,000	973	542	1,550	1,370
25	2,120	2,960	1,900	1,250	1,350	2,090	8,500	3,870	917	601	1,850	1,160
26	2,230	2,230	1,830	1,300	1,400	1,810	8,800	4,060	1,130	530	1,290	1,150
27	2,080	1,710	1,900	1,350	1,450	1,740	8,700	4,850	1,460	150	995	926
28	1,910	1,970	1,900	1,300	1,650	1,640	9,600	4,540	1,280	939	1,190	924
29	1,760	2,180	1,800	1,250	------	1,640	9,420	4,270	917	1,080	2,450	903
30	1,630	2,810	1,700	1,250	------	1,640	10,100	3,570	826	826	3,150	899
31	1,590	------	1,700	1,200	------	1,590	------	2,970	------	826	2,440	------
TOTAL	72,160	60,120	64,150	42,700	37,100	63,510	187,010	285,850	47,225	24,514	42,173	40,472
MEAN	2,328	2,004	2,069	1,377	1,325	2,049	6,234	9,221	1,574	791	1,360	1,349
MAX	4,810	4,550	3,230	1,650	1,700	3,620	13,400	16,800	3,890	1,730	3,170	2,660
MIN	1,510	1,240	1,500	1,200	1,100	1,590	1,480	2,970	812	150	685	717
MEAN†	2,422	1,617	1,373	873	868	1,504	6,954	10,950	1,756	754	1,275	1,275
CFSM†	1.60	1.07	.91	.58	.57	.99	4.59	7.23	1.16	.50	.84	.84
IN.†	1.84	1.19	1.05	.66	.60	1.15	5.13	8.34	1.29	.57	.97	.94

CAL YR 1970 TOTAL 1,042,958 MEAN 2,857 MAX 23,300 MIN 277 MEAN† 2,779 CFSM† 1.84 IN† 24.92
WTR YR 1971 TOTAL 966,984 MEAN 2,649 MAX 16,800 MIN 150 MEAN† 2,647 CFSM† 1.75 IN† 23.74

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes and Lake Francis.

01133000 East Branch Passumpsic River near East Haven, Vt.

LOCATION.--Lat 44°38'02", long 71°53'53", Caledonia County, on right bank in Burke, 2.1 miles south of East Haven.

DRAINAGE AREA.--53.8 sq mi.

PERIOD OF RECORD.--July 1939 to October 1945, October 1948 to current year. Prior to October 1951, published as Passumpsic River near East Haven.

GAGE.--Water-stage recorder. Datum of gage is 945.88 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--29 years, 100 cfs (25.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 935 cfs May 3 (gage height, 4.26 ft); minimum, 23 cfs Apr. 1, Aug. 20.
Period of record: Maximum discharge, 2,200 cfs Apr. 18, 1960 (gage height, 6.28 ft), from rating curve extended above 1,300 cfs; maximum gage height, 6.58 ft Mar. 5, 1964 (ice jam); minimum discharge, 13 cfs Sept. 1-5, 1953.
Flood in November 1927 reached a stage of about 12.6 ft, from information by local resident.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	44	75	42	35	46	40	432	101	106	72	61
2	44	43	78	41	35	42	40	414	91	135	102	50
3	51	42	89	41	34	40	79	633	117	63	262	45
4	75	41	74	41	34	38	85	736	111	47	218	42
5	62	41	63	45	34	38	67	623	88	41	89	41
6	52	41	57	50	35	39	61	549	78	38	63	42
7	47	42	52	45	35	39	63	633	73	40	53	42
8	43	43	46	40	35	38	58	621	176	37	45	39
9	41	41	54	42	40	38	55	644	132	34	40	36
10	39	40	60	45	41	37	65	611	90	32	36	33
11	38	59	55	45	39	36	129	603	75	29	38	31
12	39	62	52	44	36	36	194	545	67	27	44	71
13	39	52	50	42	37	37	232	524	61	27	36	134
14	55	48	49	41	65	40	244	385	57	52	33	97
15	270	54	47	40	90	54	173	305	54	46	31	100
16	240	68	46	39	75	120	129	284	51	37	31	71
17	120	57	46	39	64	68	112	277	48	47	27	58
18	90	50	45	38	56	65	118	252	45	75	26	64
19	75	50	45	37	52	60	211	227	42	46	25	58
20	62	61	44	36	47	48	408	203	40	59	24	51
21	55	150	43	35	45	45	475	188	68	43	27	72
22	52	108	42	35	43	44	464	233	87	35	29	64
23	60	88	44	35	41	45	301	194	56	31	121	52
24	80	73	45	35	40	45	238	156	47	29	103	48
25	70	62	48	34	39	43	301	142	62	30	58	43
26	60	57	46	37	38	41	299	240	119	28	44	41
27	56	55	45	40	41	40	291	189	61	38	39	38
28	52	71	44	40	51	40	362	244	48	35	208	38
29	49	98	43	39	------	42	427	169	42	29	197	38
30	47	80	42	37	------	40	422	136	39	35	101	38
31	45	------	42	36	------	39	------	117	------	32	86	------
TOTAL	2,157	1,821	1,611	1,236	1,257	1,423	6,143	11,509	2,226	1,383	2,308	1,638
MEAN	69.6	60.7	52.0	39.9	44.9	45.9	205	371	74.2	44.6	74.5	54.6
MAX	270	150	89	50	90	120	475	736	176	135	262	134
MIN	38	40	42	34	34	36	40	117	39	27	24	31
CFSM	1.29	1.13	.97	.74	.83	.85	3.31	6.90	1.38	.83	1.38	1.01
IN.	1.49	1.26	1.11	.85	.87	.98	4.25	7.96	1.54	.96	1.60	1.13

CAL YR 1970 TOTAL 32,537 MEAN 89.1 MAX 1,120 MIN 17 CFSM 1.66 IN 22.50
WTR YR 1971 TOTAL 34,712 MEAN 95.1 MAX 736 MIN 24 CFSM 1.77 IN 24.00

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-3	2400	4.26	935				

01134500 Moose River at Victory, Vt.

LOCATION.--Lat 44°30'42", long 72°50'13", Essex County, on right bank at Victory, 2.7 miles upstream from highway bridge.

DRAINAGE AREA.--75.2 sq mi.

PERIOD OF RECORD.--January 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,103.99 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--24 years, 136 cfs (24.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,490 cfs May 4 (gage height, 8.52 ft); minimum, 9.0 cfs Aug. 20.
Period of record: Maximum discharge, 3,010 cfs Apr. 25, 1970 (gage height, 10.61 ft); maximum gage height, 10.89 ft Apr. 21, 1950; minimum discharge, 3.6 cfs Aug. 20, 1970.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--WSP 1381: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	28	103	32	24	56	56	736	102	42	51	51
2	30	27	95	32	23	54	57	725	85	280	86	34
3	51	26	123	30	23	52	81	838	93	103	140	27
4	176	25	97	30	24	51	133	1,350	98	52	556	23
5	102	24	85	30	25	50	133	1,140	79	34	312	22
6	65	24	67	33	25	49	128	926	65	27	99	23
7	47	24	56	32	24	48	125	984	62	26	63	25
8	37	24	41	30	24	47	115	1,030	252	22	44	22
9	31	23	52	29	27	47	106	974	266	19	32	20
10	26	22	56	29	29	46	108	959	129	17	25	16
11	24	28	54	29	29	45	144	968	88	14	23	14
12	26	41	52	28	28	45	234	942	69	12	30	17
13	26	35	51	28	27	44	352	854	57	10	22	40
14	46	31	49	27	30	44	450	716	47	28	18	45
15	121	32	47	27	45	49	463	468	42	49	16	72
16	188	46	46	27	70	70	385	380	37	28	14	47
17	119	48	44	27	63	110	295	347	33	22	13	32
18	80	40	43	26	56	105	273	305	29	33	11	69
19	64	35	41	26	51	92	330	295	26	28	10	62
20	51	44	37	26	48	82	606	265	23	41	9.2	42
21	44	181	35	26	45	78	884	218	22	35	11	45
22	40	205	33	26	43	73	967	261	52	22	12	61
23	47	143	35	25	42	68	772	268	35	17	66	41
24	60	117	38	25	41	64	523	180	26	14	108	30
25	55	81	40	25	40	60	481	146	24	12	48	27
26	47	58	38	25	40	58	534	247	123	12	28	23
27	41	58	36	28	40	57	498	238	64	12	22	20
28	35	65	34	28	45	57	539	259	34	12	88	19
29	32	146	33	28	------	57	674	206	25	11	292	18
30	30	117	32	26	------	57	700	152	21	21	132	19
31	29	------	32	25	------	56	------	124	------	19	79	------
TOTAL	1,810	1,798	1,625	865	1.031	1.871	11.146	17.501	2.108	1.074	2.460.2	1,006
MEAN	58.4	59.9	52.4	27.9	36.8	60.4	372	565	70.3	34.6	79.4	33.5
MAX	188	205	123	33	70	110	967	1,350	266	280	556	72
MIN	24	22	32	25	23	44	56	124	21	10	9.2	14
CFSM	.78	.80	.70	.37	.49	.80	4.95	7.51	.93	.46	1.06	.45
IN.	.90	.89	.80	.43	.51	.93	5.51	8.66	1.04	.53	1.22	.50

CAL YR 1970 TOTAL 41,473.3 MEAN 114 MAX 2,470 MIN 3.6 CFSM 1.52 IN 20.52
WTR YR 1971 TOTAL 44,295.2 MEAN 121 MAX 1.350 MIN 9.2 CFSM 1.61 IN 21.91

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1100	8.52	1,490				

01134800 Kirby Brook at Concord, Vt.

LOCATION.--Lat 44°26'31", long 71°52'45", Essex County, on right bank 30 ft downstream from culvert on U.S. Highway 2, 700 ft upstream from mouth, and 1 mile north of Concord.

DRAINAGE AREA.--8.05 sq mi.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 10.7 cfs (18.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 196 cfs Apr. 19 (gage height, 3.96 ft); maximum gage height, 7.21 ft Dec. 9 (backwater from ice); minimum discharge, 0.18 cfs July 13.

Period of record: Maximum discharge, 615 cfs Apr. 24, 1970 (gage height, 4.85 ft), from rating curve extended above 140 cfs; maximum gage height, 7.21 ft Dec. 9, 1970 (backwater from ice); no flow Aug. 19, 1970.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.5	7.8	2.2	1.7	4.7	5.8	60	5.5	9.4	2.3	2.3
2	1.6	1.4	8.1	2.2	1.7	4.3	6.0	60	4.6	8.7	11	1.8
3	9.4	1.4	7.8	2.2	1.7	4.1	10	124	7.1	2.3	39	1.5
4	11	1.3	6.5	2.1	1.7	4.0	19	113	6.3	1.3	29	1.4
5	4.3	1.2	5.4	2.3	1.7	3.9	17	80	4.6	.93	8.1	1.3
6	2.6	1.3	4.6	2.5	1.7	3.7	15	65	3.6	.78	3.9	1.4
7	2.1	1.2	3.7	2.3	1.7	3.7	14	60	3.3	.93	2.4	1.4
8	1.9	1.2	3.0	2.1	1.8	3.7	13	51	24	.69	1.7	1.1
9	1.6	1.3	3.7	2.0	1.9	3.6	15	49	12	.57	1.3	1.0
10	1.3	1.3	4.2	1.9	2.0	3.5	20	39	6.3	.47	1.0	.88
11	1.2	2.2	4.1	1.9	2.0	3.5	44	35	4.3	.35	1.6	.78
12	1.6	2.2	3.8	1.9	1.9	3.5	66	28	3.3	.27	1.8	1.0
13	1.5	1.9	3.6	1.9	1.9	3.6	69	30	2.6	.22	1.1	1.7
14	2.9	1.7	3.6	1.9	2.4	3.7	69	24	2.1	1.7	.88	2.0
15	7.5	2.6	3.6	1.8	6.0	5.0	39	18	1.9	1.4	.73	2.6
16	8.1	4.8	3.3	1.8	5.4	12	31	15	1.8	.78	.73	1.8
17	4.6	3.6	3.1	1.8	4.7	10	30	16	1.5	1.2	.57	1.3
18	3.4	2.7	3.1	1.7	4.2	9.1	42	14	1.2	2.4	.50	2.0
19	2.6	2.7	3.0	1.7	3.8	8.4	94	12	.98	1.1	.44	1.9
20	2.2	4.1	2.8	1.7	3.6	7.8	132	10	.83	2.7	.41	1.2
21	1.9	12	2.5	1.7	3.4	7.2	109	10	1.6	1.4	1.0	2.1
22	2.0	7.1	2.4	1.6	3.3	6.8	91	17	3.9	.88	1.0	2.0
23	3.3	6.5	2.4	1.6	3.2	6.4	52	13	1.7	.60	8.7	1.4
24	3.6	4.8	2.4	1.6	3.1	6.2	45	9.4	1.1	.53	4.3	1.1
25	2.7	3.4	2.6	1.7	3.0	6.0	59	8.4	1.4	.57	1.7	.88
26	2.3	2.6	2.6	1.8	2.9	5.8	55	14	5.1	.53	1.1	.88
27	2.0	2.7	2.5	1.9	3.0	5.8	52	12	1.9	.41	.98	.78
28	1.9	7.8	2.4	2.0	5.5	5.6	58	20	1.1	.41	26	.78
29	1.7	11	2.3	1.9	------	5.6	65	12	.78	.47	15	.78
30	1.5	8.7	2.3	1.9	------	5.6	60	8.7	.69	2.0	6.3	.83
31	1.5	------	2.3	1.8	------	5.6	------	6.8	------	.98	3.8	------
TOTAL	97.8	108.2	115.5	59.4	80.9	172.4	1,396.8	1,034.3	117.08	46.97	178.34	41.89
MEAN	3.15	3.61	3.73	1.92	2.89	5.56	46.6	33.4	3.90	1.52	5.75	1.40
MAX	11	12	8.1	2.5	6.0	12	132	124	24	9.4	39	2.6
MIN	1.2	1.2	2.3	1.6	1.7	3.5	5.8	6.8	.69	.22	.41	.78
CFSM	.39	.45	.46	.24	.36	.69	5.79	4.15	.48	.19	.71	.17
IN.	.45	.50	.53	.27	.37	.80	6.45	4.78	.54	.22	.82	.19

CAL YR 1970 TOTAL 3,453.49 MEAN 9.46 MAX 159 MIN 0 CFSM 1.18 IN 15.96
WTR YR 1971 TOTAL 3,449.58 MEAN 9.45 MAX 132 MIN .22 CFSM 1.17 IN 15.94

PEAK DISCHARGE (BASE, 150 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-19	2000	3.96	196				
5-3	2230	3.90	177				
8-3	2100	3.94	189				

01135000 Moose River at St. Johnsbury, Vt.

LOCATION.--Lat 44°25'22", long 72°00'02", Caledonia County, on left bank at St. Johnsbury, 0.5 mile upstream from mouth.

DRAINAGE AREA.--128 sq mi.

PERIOD OF RECORD.--August 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 585 ft (from topographic map). Prior to Nov. 16, 1934, nonrecording gage at site 0.2 mile upstream at different datum.

AVERAGE DISCHARGE.--43 years, 215 cfs (22.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,120 cfs May 4 (gage height, 4.09 ft); minimum, 12 cfs July 28, 29, Aug. 20.
Period of record: Maximum discharge, 5,800 cfs Apr. 30, 1929 (gage height, 8.3 ft, from graph based on gage readings, site and datum then in use), from rating curve extended above 3,400 cfs; minimum, 6.2 cfs Sept. 17, 18, 1948, Aug. 27, 28, 1949.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 1231: 1929-30, 1931-34(M). WSP 1381: Drainage area. WSP 1701: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	43	154	59	42	82	100	1,120	150	65	42	83
2	51	42	139	58	43	96	105	1,090	127	305	107	56
3	70	41	154	53	44	88	165	1,150	130	171	247	42
4	205	39	156	54	45	84	236	1,700	142	85	576	36
5	154	38	110	56	45	82	239	1,520	119	57	429	32
6	103	38	95	58	44	80	236	1,340	101	42	144	32
7	74	38	80	56	44	77	236	1,390	93	37	90	32
8	59	37	50	54	43	76	202	1,390	305	32	65	31
9	50	37	60	52	46	76	186	1,430	429	27	47	27
10	44	35	90	50	49	75	220	1,390	212	23	35	24
11	40	41	100	49	52	75	437	1,250	135	19	36	22
12	41	54	95	48	54	74	741	1,220	108	16	38	23
13	42	55	90	47	49	72	962	1,090	92	14	34	34
14	50	50	87	47	56	70	1,060	994	77	20	25	57
15	117	54	83	47	80	90	930	720	68	55	21	75
16	236	74	80	46	110	140	846	560	64	42	19	70
17	171	79	78	46	100	165	688	514	62	32	17	50
18	121	68	76	46	88	180	704	445	49	37	15	60
19	95	60	71	45	82	160	994	413	42	41	13	81
20	77	65	65	45	76	145	1,390	373	37	45	15	62
21	69	143	62	45	72	140	1,520	317	38	51	19	51
22	61	290	58	44	68	130	1,520	373	65	34	19	69
23	67	188	62	44	66	125	1,520	405	64	23	54	61
24	85	171	68	44	64	115	1,030	280	43	18	138	42
25	81	121	70	44	63	110	994	223	38	17	78	34
26	72	81	66	48	62	105	962	317	110	15	44	30
27	63	80	62	50	62	100	962	359	105	14	32	27
28	56	95	60	47	74	100	962	381	61	13	122	25
29	51	167	58	44	------	100	1,090	323	40	15	341	24
30	47	175	62	42	------	100	1,120	231	31	24	202	23
31	45	------	61	41	------	100	------	186	------	27	114	------
TOTAL	2,564	2,500	2,602	1,509	1,723	3,212	22,357	24,494	3,137	1,416	3,178	1,315
MEAN	82.7	83.3	83.9	48.7	61.5	104	745	790	105	45.7	103	43.8
MAX	236	290	156	59	110	180	1,520	1,700	429	305	576	83
MIN	40	35	50	41	42	70	100	186	31	13	13	22
CFSM	.65	.65	.66	.38	.48	.81	5.82	6.17	.82	.36	.80	.34
IN.	.75	.73	.76	.44	.50	.93	6.50	7.12	.91	.41	.92	.38

CAL YR 1970 TOTAL 63,049.2 MEAN 173 MAX 3,030 MIN 8.2 CFSM 1.35 IN 18.32
WTR YR 1971 TOTAL 70,007.0 MEAN 192 MAX 1,700 MIN 13 CFSM 1.50 IN 20.35

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1700	4.09	2,120				

01135500 Passumpsic River at Passumpsic, Vt.

LOCATION.--Lat 44°21'56", long 72°02'23", Caledonia County, on right bank 0.7 mile upstream from Water Andric, 1 mile downstream from dam and village of Passumpsic, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--436 sq mi.

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft (from topographic map).

AVERAGE DISCHARGE.--43 years, 711 cfs (22.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,960 cfs May 4 (gage height, 11.40 ft); minimum daily, 57 cfs Aug. 15.
Period of record: Maximum discharge, 16,000 cfs Mar. 18, 1936 (gage height, 21.23 ft), from rating curve extended above 12,000 cfs on basis of computation of peak flow over dam; minimum daily, 13 cfs Sept. 12, 1948.
Maximum stage since at least 1780, about 31.5 ft in November 1927, from information by local residents (discharge not determined).

REMARKS.--Records excellent except those for winter period, which are fair. Low flow regulated by powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 871: Drainage area. WSP 1231: 1929, 1930-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	168	497	250	220	340	300	3,540	640	252	195	460
2	228	238	443	250	215	320	350	3,450	547	1,140	475	327
3	218	218	508	250	210	290	500	4,700	585	569	1,180	315
4	449	209	454	260	215	270	1,300	6,400	646	342	2,470	279
5	438	182	400	240	220	260	1,300	5,000	541	269	1,100	193
6	293	196	330	270	215	270	1,080	4,180	465	235	547	258
7	258	185	300	280	210	270	1,070	4,240	445	239	323	315
8	228	171	300	270	230	270	875	4,240	935	220	279	220
9	206	202	330	250	230	270	657	4,070	1,160	187	265	249
10	168	177	340	250	250	260	845	3,920	690	187	226	195
11	138	166	310	270	270	250	1,440	3,790	508	81	217	132
12	199	320	260	260	270	250	1,870	3,550	420	195	217	134
13	193	265	270	250	270	280	2,160	3,270	397	157	232	503
14	187	224	280	250	300	340	2,220	2,740	363	191	179	445
15	407	215	280	245	450	403	1,810	2,000	300	330	57	519
16	1,120	359	280	245	540	470	1,510	1,690	319	272	226	450
17	684	346	280	240	530	600	1,270	1,630	286	165	165	339
18	470	305	260	240	400	520	1,440	1,510	258	342	140	338
19	387	247	250	225	370	460	2,260	1,280	223	297	114	363
20	297	279	270	220	340	420	3,880	1,190	239	308	105	354
21	282	569	300	215	320	390	4,460	1,070	226	290	184	300
22	238	809	290	215	300	370	4,250	1,290	411	207	63	420
23	289	595	240	220	280	360	3,390	1,250	359	194	519	315
24	407	508	270	220	270	340	2,480	981	269	181	701	262
25	332	363	300	220	260	330	2,810	839	242	73	379	249
26	312	309	280	215	260	320	2,920	1,250	563	220	258	201
27	286	286	290	240	260	310	2,720	1,180	481	150	223	283
28	241	320	270	240	300	300	2,920	1,300	315	136	1,520	207
29	275	585	290	230	------	300	3,550	1,070	223	193	2,370	184
30	218	563	250	225	------	300	3,400	845	201	179	955	197
31	218	------	270	220	------	300	------	719	------	160	596	------
TOTAL	9,931	9,580	9,692	7,475	8,175	10,430	61,037	78,184	13,257	7,941	16,480	8,995
MEAN	320	319	313	241	292	336	2,035	2,522	442	256	532	300
MAX	1,120	809	508	280	540	600	4,460	6,400	1,160	1,140	2,470	519
MIN	138	166	240	215	210	250	300	719	201	73	57	132
CFSM	.73	.73	.72	.55	.67	.77	4.67	5.78	1.01	.59	1.22	.69
IN.	.85	.82	.83	.64	.70	.89	5.21	6.67	1.13	.68	1.41	.77

CAL YR 1970 TOTAL 220,379 MEAN 604 MAX 8,550 MIN 49 CFSM 1.39 IN 18.80
WTR YR 1971 TOTAL 241,177 MEAN 661 MAX 6,400 MIN 57 CFSM 1.52 IN 20.58

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	†0800	11.40	6,960				

† About.

01137500 Ammonoosuc River at Bethlehem Junction, N.H.

LOCATION.--Lat 44°16'08", long 71°37'52", Grafton County, on left bank 0.2 mile upstream from Pierce Bridge and Bethlehem Junction, 0.8 mile upstream from unnamed tributary entering from left, 3 miles east of Bethlehem, 3.4 miles downstream from Little River, and at mile 35.0.

DRAINAGE AREA.--87.6 sq mi.

PERIOD OF RECORD.--August 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,180.74 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--32 years, 205 cfs (31.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,440 cfs May 26 (gage height, 6.35 ft); minimum, 36 cfs July 12, 13.
Period of record: Maximum discharge, 10,800 cfs Oct. 24, 1959 (gage height, 12.09 ft), from rating curve extended above 4,100 cfs on basis of slope-area measurement of peak flow; minimum, 16 cfs Nov. 14, 1952 (caused by anchor ice upstream).

REMARKS.--Records excellent except those for winter period, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1951(M), 1953-54(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	91	115	55	46	65	68	459	365	68	107	91
2	97	87	110	56	46	60	73	424	296	99	90	79
3	299	84	111	56	46	55	230	752	313	72	187	72
4	457	81	133	54	46	50	240	1,560	309	61	330	69
5	210	79	105	60	48	51	155	1,020	268	55	158	67
6	152	79	90	70	47	53	145	769	219	51	110	208
7	126	74	70	64	47	52	146	859	202	49	92	122
8	110	73	52	56	47	51	125	871	721	46	80	88
9	99	70	110	58	49	50	112	963	895	44	71	73
10	90	66	100	60	52	49	147	998	390	41	64	65
11	86	68	85	58	49	49	213	1,270	275	39	66	59
12	86	69	76	55	46	49	299	1,410	228	37	85	70
13	82	66	76	52	48	50	471	1,720	198	36	62	187
14	83	64	70	51	70	52	616	978	172	77	55	157
15	100	64	64	52	110	60	376	692	155	96	51	178
16	211	69	60	51	85	100	264	740	140	56	51	127
17	151	65	63	49	74	150	218	783	126	55	46	102
18	115	61	66	48	66	120	213	926	113	108	43	98
19	103	61	67	48	61	105	304	1,130	103	68	41	91
20	92	66	65	47	57	95	564	1,250	96	212	40	79
21	87	500	60	47	54	88	643	901	104	97	54	95
22	85	257	56	49	54	84	633	1,200	155	67	48	97
23	94	291	61	49	52	76	422	746	106	54	75	80
24	287	212	61	48	51	70	325	504	92	48	71	74
25	222	141	63	47	51	65	402	494	85	181	50	69
26	158	114	60	47	50	65	387	1,620	111	92	43	64
27	135	119	59	50	54	66	353	769	91	72	39	61
28	119	114	58	50	70	68	400	629	77	66	239	58
29	109	135	57	48	------	70	455	506	69	59	284	56
30	101	122	56	47	------	69	433	465	66	113	144	55
31	96	------	56	47	------	68	------	434	------	96	113	------
TOTAL	4,360	3,442	2,335	1,629	1,576	2,155	9,432	27,842	6,540	2,315	2,989	2,791
MEAN	141	115	75.3	52.5	56.3	69.5	314	898	218	74.7	96.4	93.0
MAX	457	500	133	70	110	150	643	1,720	895	212	330	208
MIN	82	61	52	47	46	49	68	424	66	36	39	55
CFSM	1.61	1.31	.86	.60	.64	.79	3.58	10.3	2.49	.85	1.10	1.06
IN.	1.85	1.46	.99	.69	.67	.92	4.01	11.82	2.78	.98	1.27	1.19

CAL YR 1970 TOTAL 77,587 MEAN 213 MAX 2,760 MIN 24 CFSM 2.43 IN 32.95
WTR YR 1971 TOTAL 67,406 MEAN 185 MAX 1,720 MIN 36 CFSM 2.11 IN 28.62

PEAK DISCHARGE (BASE, 2,700 CFS).--No peak above base.

CONNECTICUT RIVER BASIN

01138000 Ammonoosuc River near Bath, N.H.

LOCATION.--Lat 44°09'14", long 71°59'10", Grafton County, on left bank 0.4 mile downstream from Wild Ammonoosuc River, 1.5 miles downstream from Bath, and 3.3 miles upstream from mouth.

DRAINAGE AREA.--395 sq mi.

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 454.14 ft above mean sea level (levels by Connecticut River Power Co.).

AVERAGE DISCHARGE.--36 years, 641 cfs (22.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,200 cfs May 4 (gage height, 7.59 ft); minimum daily, 76 cfs July 13.
Period of record: Maximum discharge, 27,900 cfs Mar. 18, 1936 (gage height, 15.40 ft), from rating curve extended above 13,000 cfs on basis of slope-area measurement at gage height 14.28 ft; minimum daily, 35 cfs Sept. 15, 1957.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by small powerplants above station; greater fluctuation prior to 1968.

REVISIONS.--WSP 871: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	267	378	240	200	540	307	1,730	763	156	286	267
2	295	244	356	240	200	450	306	1,620	627	202	238	215
3	387	233	353	230	200	400	656	2,540	615	194	313	193
4	1,360	227	370	230	200	370	1,230	4,560	634	156	754	173
5	657	223	390	230	205	350	900	3,360	575	137	465	162
6	456	215	300	230	205	335	773	2,320	482	125	308	164
7	364	209	220	240	200	335	749	2,170	428	121	236	216
8	318	202	190	245	200	335	736	2,050	595	111	196	199
9	286	196	220	245	220	330	578	2,230	1,570	103	173	164
10	258	190	270	240	230	330	707	2,010	768	95	152	139
11	233	189	300	235	210	310	1,200	2,310	543	86	151	127
12	229	189	290	230	200	300	1,800	2,600	451	79	221	145
13	229	189	280	225	210	290	2,520	3,290	394	76	184	396
14	227	189	270	225	300	320	2,970	2,290	344	120	146	428
15	281	192	260	220	540	350	2,080	1,510	314	232	128	420
16	582	229	250	215	600	550	1,460	1,390	290	173	120	339
17	578	255	250	210	560	750	1,170	1,500	264	138	114	269
18	419	242	260	205	500	650	1,210	1,580	237	210	105	238
19	356	227	270	205	450	550	1,620	1,890	216	208	96	234
20	313	223	260	205	410	460	2,850	2,160	199	489	88	209
21	288	802	250	205	380	420	3,260	1,850	203	343	110	217
22	265	786	240	200	360	380	3,170	1,900	386	216	127	285
23	281	602	240	200	350	350	2,360	1,760	305	165	145	226
24	449	648	250	200	345	330	1,680	1,090	231	136	233	202
25	606	425	270	200	340	310	1,860	897	212	191	163	183
26	452	310	260	200	340	290	1,860	3,410	354	236	127	169
27	375	337	260	200	360	300	1,690	2,120	280	172	113	160
28	342	334	250	200	460	310	1,640	1,440	214	149	545	159
29	316	390	250	200	------	330	1,900	1,160	182	147	943	154
30	298	397	250	200	------	330	1,770	981	167	306	483	140
31	278	------	240	200	------	320	------	877	------	281	358	------
TOTAL	12,148	9,361	8,497	6,750	8,975	11,975	46,942	62,595	12,843	5,553	7,821	6,590
MEAN	392	312	274	218	321	386	1,565	2,019	428	179	252	220
MAX	1,360	802	390	245	600	750	3,260	4,560	1,570	489	943	428
MIN	227	189	190	200	200	290	306	877	167	76	88	127
CFSM	.99	.79	.69	.55	.81	.98	3.96	5.11	1.08	.45	.64	.56
IN.	1.14	.88	.80	.64	.85	1.13	4.42	5.90	1.21	.52	.74	.62

CAL YR 1970 TOTAL 226,675 MEAN 621 MAX 6,840 MIN 51 CFSM 1.57 IN 21.35
WTR YR 1971 TOTAL 200,050 MEAN 548 MAX 4,560 MIN 76 CFSM 1.39 IN 18.84

PEAK DISCHARGE (BASE, 6,500 CFS).--No peak above base.

01138500 Connecticut River at Wells River, Vt.

LOCATION.--Lat 44°09'13", long 72°02'34", Orange County, on right bank at village of Wells River, 200 ft downstream from bridge on U.S. Highway 302, 400 ft upstream from Wells River, 1,200 ft downstream from Ammonoosuc River, and at mile 266.0.

DRAINAGE AREA.--2,644 sq mi.

PERIOD OF RECORD.--October 1949 to current year. October and November 1949 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 399.75 ft above mean sea level.

AVERAGE DISCHARGE.--22 years, 4,644 cfs (23.85 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 27,000 cfs May 4 (gage height, 9.58 ft); minimum daily, 246 cfs Aug. 15.
Period of record: Maximum discharge, 54,000 cfs Mar. 27, 1953 (gage height, 15.96 ft); minimum daily, 152 cfs Aug. 28, 1960.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 209), and other reservoirs (combined usable capacity, about 14.8 billion cubic feet).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,080	1,720	5,400	750	2,800	2,750	3,720	17,400	4,970	2,590	575	3,970
2	3,210	2,000	4,300	540	3,300	4,170	3,460	17,300	3,800	2,510	2,200	2,730
3	953	1,900	5,100	580	3,000	3,930	3,200	19,700	4,750	1,190	2,030	2,660
4	3,000	2,240	5,500	1,900	2,300	4,050	4,260	25,600	4,420	708	6,650	1,080
5	4,060	2,060	4,100	2,640	2,300	4,030	5,770	23,000	2,700	679	4,460	1,390
6	4,180	1,810	1,500	2,410	600	2,790	6,010	20,700	1,260	1,560	3,030	978
7	4,510	1,280	3,300	2,930	550	1,130	7,220	20,200	3,780	1,700	1,490	2,720
8	4,900	1,060	4,000	3,300	1,500	3,590	5,400	15,600	5,300	2,040	800	2,350
9	4,490	1,820	3,200	966	1,900	3,900	5,430	17,100	7,950	1,090	3,340	3,390
10	3,780	2,330	3,000	691	2,200	4,000	4,640	18,100	4,320	423	2,890	2,510
11	1,320	1,960	3,100	2,200	1,800	4,890	3,330	19,700	3,620	337	1,950	672
12	2,190	2,560	1,310	2,920	1,930	4,720	8,570	19,700	2,780	621	1,490	471
13	2,520	3,090	1,730	3,340	1,530	2,470	14,400	20,000	1,800	1,100	1,220	2,690
14	1,940	1,730	2,130	3,580	762	1,880	15,000	18,800	2,640	1,090	354	2,580
15	2,550	1,350	3,510	1,860	911	3,190	13,500	16,300	2,790	1,670	246	3,800
16	4,060	2,620	2,790	1,100	2,590	4,270	12,800	10,800	2,930	1,380	1,760	3,710
17	4,420	3,200	3,290	889	3,820	6,850	11,100	8,580	1,760	375	1,350	3,320
18	3,330	2,800	2,300	2,860	3,450	5,960	6,380	11,200	1,920	453	1,800	2,770
19	4,480	2,800	1,760	2,680	1,990	6,020	9,260	8,760	1,710	1,450	1,190	1,530
20	4,470	3,100	602	2,960	1,670	6,310	16,400	11,300	490	2,130	1,130	2,110
21	4,270	2,000	3,000	2,910	960	6,430	21,400	9,510	2,350	1,920	466	2,680
22	3,230	3,000	3,400	2,020	2,710	5,020	21,900	9,640	3,150	1,310	442	2,480
23	2,630	4,800	3,600	1,800	3,280	4,920	19,700	7,760	3,370	2,040	2,290	2,610
24	1,600	5,600	3,400	600	2,910	4,470	16,900	8,790	3,380	567	2,530	3,060
25	1,510	5,800	1,400	2,300	4,200	3,880	15,300	7,700	2,570	403	2,350	1,410
26	3,060	2,500	1,800	1,900	2,260	4,450	15,300	10,000	1,950	1,560	2,040	650
27	3,320	3,500	1,600	4,190	1,900	2,440	15,200	8,580	1,050	1,960	2,930	1,930
28	3,640	2,500	2,800	4,710	873	1,850	15,000	8,210	1,590	644	3,220	2,080
29	3,740	2,700	4,000	2,100	------	3,940	16,600	7,840	1,450	670	5,790	1,810
30	3,030	5,300	4,100	900	------	3,800	17,100	4,830	2,240	1,520	5,420	1,350
31	995	------	2,500	500	------	3,200	------	3,790	------	683	4,240	------
TOTAL	98,468	80,530	93,522	65,026	59,996	125,300	334,250	426,490	88,290	38,373	72,473	67,491
MEAN	3,176	2,684	3,017	2,098	2,143	4,042	11,140	13,760	2,943	1,238	2,338	2,250
MAX	4,900	5,800	5,500	4,710	4,200	6,850	21,900	25,600	7,950	2,590	6,650	3,970
MIN	953	1,060	602	500	550	1,130	3,200	3,790	490	337	246	471
MEAN†	3,391	2,437	2,112	1,409	1,571	2,478	12,020	16,810	2,927	1,237	2,453	1,954
CFSM†	1.28	.92	.80	.53	.59	.94	4.55	6.36	1.11	.47	.93	.74
IN.†	1.48	1.03	.92	.61	.62	1.08	5.07	7.33	1.24	.54	1.07	.82

CAL YR 1970 TOTAL 1,654,042 MEAN 4,532 MAX 29,000 MIN 316 MEAN† 4,447 CFSM† 1.68 IN† 22.84
WTR YR 1971 TOTAL 1,550,209 MEAN 4,247 MAX 25,600 MIN 246 MEAN† 4,248 CFSM† 1.61 IN† 21.82

PEAK DISCHARGE (BASE, 23,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1200	9.58	27,000				

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes, Lake Francis, and Moore and Comerford Reservoirs.

CONNECTICUT RIVER BASIN

01139000 Wells River at Wells River, Vt.

LOCATION.--Lat 44°09'03", long 72°03'55", Orange County, on right bank 800 ft upstream from railroad bridge, 0.8 mile west of village of Wells River, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--98.4 sq mi.

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 505.53 ft above mean sea level (levels by Connecticut River Power Co.).

AVERAGE DISCHARGE.--31 years, 133 cfs (18.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,040 cfs May 4 (gage height, 6.07 ft); minimum, 13 cfs July 13.
Period of record: Maximum discharge, 3,230 cfs June 2, 1952 (gage height, 8.12 ft), from rating curve extended above 1,400 cfs on basis of computation of peak flow over dam; minimum, 5.1 cfs Oct. 6, 1948; minimum daily, 8.3 cfs Sept. 5, 1953.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation at low flow prior to 1958 caused by small powerplant above station. Flow partly regulated by Groton and Ricker Ponds.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1201: 1942(P), 1944-45(M), 1946-47(P), 1948(M), 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	32	52	32	25	78	62	741	109	29	49	79
2	35	29	48	31	25	72	62	725	95	35	93	60
3	46	29	45	31	24	66	140	1,200	97	30	126	50
4	89	27	44	31	23	65	190	1,780	94	26	310	45
5	54	26	55	32	23	68	160	1,180	86	25	136	40
6	43	25	46	37	23	64	150	940	78	23	79	38
7	38	24	41	36	22	61	145	830	73	25	57	36
8	39	23	38	35	25	58	130	762	70	22	44	34
9	73	22	44	34	33	56	116	707	77	20	37	30
10	87	23	46	34	31	54	143	611	70	19	32	28
11	78	27	43	36	30	52	215	557	64	16	30	26
12	69	33	40	35	31	51	344	499	59	16	39	30
13	59	30	38	34	50	50	436	506	55	14	28	53
14	56	26	37	34	65	50	466	469	52	38	25	55
15	64	27	35	33	90	58	372	366	48	52	23	69
16	88	45	33	33	80	100	315	315	48	30	22	55
17	64	47	34	32	75	120	276	317	46	26	20	49
18	53	39	37	32	70	96	313	298	42	33	19	63
19	47	34	36	31	65	86	450	259	41	29	18	52
20	48	46	35	31	62	80	733	228	37	75	16	44
21	40	62	34	31	58	75	860	218	39	44	17	49
22	36	75	33	30	55	71	818	292	56	32	17	49
23	52	61	33	28	52	69	656	255	43	27	29	43
24	58	64	36	27	50	66	507	202	38	25	40	39
25	47	40	39	26	49	64	614	175	36	25	24	35
26	42	34	38	26	48	62	576	210	50	25	20	32
27	41	37	37	28	60	61	571	211	42	24	19	30
28	40	36	36	29	84	60	593	203	36	24	460	29
29	41	52	35	26	------	59	752	173	32	24	543	29
30	38	53	34	26	------	60	749	142	31	136	214	29
31	36	------	33	25	------	61	------	123	------	56	123	------
TOTAL	1,641	1,128	1,215	966	1,328	2,092	11,914	15,494	1,744	1,025	2,709	1,300
MEAN	52.9	37.6	39.2	31.2	47.4	67.5	397	500	58.1	33.1	87.4	43.3
MAX	89	75	55	37	90	120	860	1,780	109	136	543	79
MIN	35	22	33	25	22	50	62	123	31	14	16	26
CFSM	.54	.38	.40	.32	.48	.69	4.03	5.08	.59	.34	.89	.44
IN.	.62	.43	.46	.37	.50	.79	4.50	5.86	.66	.39	1.02	.49

CAL YR 1970 TOTAL 45,562 MEAN 125 MAX 1,380 MIN 11 CFSM 1.27 IN 17.22
WTR YR 1971 TOTAL 42,556 MEAN 117 MAX 1,780 MIN 14 CFSM 1.19 IN 16.09

PEAK DISCHARGE (BASE, 980 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-21	0200	4.47	1,000				
5-4	0900	6.07	2,040				
8-28	2130	4.94	1,310				

01139800 East Orange Branch at East Orange, Vt.

LOCATION.--Lat 44°05'34", long 72°20'10", Orange County, on left bank 0.3 mile east of East Orange, 1.6 miles upstream from mouth, and 5 miles southwest of Orange.

DRAINAGE AREA.--8.95 sq mi.

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,180 ft (from topographic map).

AVERAGE DISCHARGE.--13 years, 13.0 cfs (19.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 465 cfs May 3 (gage height, 4.53 ft, from peak-stage indicator), from rating curve extended above 190 cfs; minimum, 0.55 cfs Aug. 20.

Period of record: Maximum discharge, 465 cfs May 3, 1971 (gage height, 4.53 ft, from peak-stage indicator), from rating curve extended above 190 cfs; maximum gage height, 6.35 ft Jan. 22, 1959 (ice jam); minimum discharge, 0.1 cfs Sept. 9, 19, 1963.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by mill upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.8	4.4	2.6	1.9	4.3	5.6	43	18	4.6	2.9	3.3
2	1.8	1.8	4.4	2.6	1.9	4.0	7.0	42	17	5.2	3.3	2.7
3	7.0	1.8	4.1	2.6	1.9	3.8	16	100	18	3.3	13	2.3
4	6.0	1.7	6.0	2.7	1.9	3.7	14	263	16	2.9	8.8	2.2
5	2.8	1.7	5.0	3.1	1.8	3.6	12	151	14	2.5	3.8	2.2
6	2.1	1.7	3.5	3.1	1.8	3.8	12	153	13	2.2	2.5	3.3
7	2.0	1.7	3.0	3.0	1.8	4.0	12	146	12	2.2	2.0	2.9
8	1.7	1.6	2.8	2.8	1.9	3.8	10	131	14	1.9	1.6	2.3
9	1.6	1.6	3.0	2.9	2.1	3.9	11	128	15	1.8	1.4	2.0
10	1.6	1.7	3.2	3.1	2.6	3.7	14	121	11	1.6	1.2	1.9
11	1.7	3.6	2.9	2.9	2.5	3.6	20	112	9.7	1.4	1.4	1.8
12	2.0	3.0	2.9	2.7	2.4	3.5	29	100	8.8	1.3	1.4	2.9
13	2.3	2.3	2.9	2.6	2.7	3.5	31	104	7.9	1.3	1.1	4.3
14	3.6	2.1	2.8	2.7	3.0	3.5	28	76	7.4	4.9	.95	6.6
15	6.3	3.2	2.6	2.6	7.5	4.0	25	65	7.4	2.5	.95	5.6
16	7.9	4.4	2.5	2.5	6.0	11	22	59	7.0	2.0	1.0	3.5
17	3.9	3.4	2.8	2.5	5.2	9.0	27	64	6.3	2.9	.87	10
18	3.0	2.8	3.0	2.7	4.8	7.5	26	53	5.6	3.3	.79	5.5
19	2.4	4.4	2.8	2.7	4.5	6.4	46	47	4.9	9.2	.63	4.6
20	2.1	5.6	2.7	2.5	4.2	6.2	66	43	6.3	8.8	.63	3.5
21	2.1	8.8	2.6	2.4	3.9	6.0	57	44	12	3.1	1.9	5.6
22	2.4	4.4	2.6	2.3	3.6	5.7	52	44	10	2.2	1.6	3.5
23	9.9	7.4	2.7	2.2	3.4	5.4	42	36	5.9	1.9	5.6	2.7
24	4.7	4.4	3.0	2.1	3.4	5.3	49	32	4.6	1.8	2.7	2.3
25	3.2	3.6	2.9	2.0	4.0	5.2	37	32	9.2	2.3	1.5	2.0
26	2.6	3.6	2.9	2.1	3.7	5.1	34	37	11	1.9	1.3	1.8
27	2.6	2.8	2.8	2.3	4.1	5.0	37	30	5.6	1.9	1.8	1.8
28	2.3	5.3	2.8	2.1	4.6	5.1	40	28	4.3	1.5	79	1.6
29	2.1	5.6	2.7	2.0	------	5.2	50	25	3.8	4.6	11	1.8
30	2.3	4.7	2.7	2.0	------	5.3	40	22	3.5	5.6	5.6	1.6
31	1.8	------	2.7	2.0	------	5.4	------	20	------	3.5	4.6	------
TOTAL	99.9	102.5	97.7	78.4	93.1	155.5	871.6	2,348	289.2	96.1	166.82	99.2
MEAN	3.22	3.42	3.15	2.53	3.33	5.02	29.1	75.7	9.64	3.10	5.38	3.31
MAX	9.9	8.8	6.0	3.1	7.5	11	66	260	18	9.2	79	10
MIN	1.6	1.6	2.5	2.0	1.8	3.5	5.6	20	3.5	1.3	.63	1.6
CFSM	.36	.38	.35	.28	.37	.56	3.25	8.46	1.08	.35	.60	.37
IN.	.42	.43	.41	.33	.39	.65	3.62	9.76	1.20	.40	.69	.41

CAL YR 1970 TOTAL 4,534.40 MEAN 12.4 MAX 155 MIN .24 CFSM 1.39 IN 18.85
WTR YR 1971 TOTAL 4,498.02 MEAN 12.3 MAX 260 MIN .63 CFSM 1.37 IN 18.70

PEAK DISCHARGE (BASE, 140 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-3	unknown	4.53	465				
8-28	1245	4.33	406				

01141500 Ompompanoosuc River at Union Village, Vt.

LOCATION.--Lat 43°47'23", long 72°15'19", Orange County, on right bank 100 ft upstream from covered bridge at Union Village, 0.2 mile downstream from Avery Brook, 0.3 mile downstream from Union Village Reservoir, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--130 sq mi.

PERIOD OF RECORD.--September 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 187 cfs (19.53 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,730 cfs May 7 (gage height, 7.26 ft); minimum, 20 cfs July 12, 13; minimum daily, 20 cfs July 13.

Period of record: Maximum discharge, 4,800 cfs June 3, 1947 (gage height, 9.65 ft), from rating curve extended above 2,400 cfs on basis of slope-area measurement of peak flow; minimum, 1.7 cfs Oct. 14, 1949; minimum daily, 2.0 cfs Oct. 20, 1949. Maximum discharge since construction of Union Village Reservoir in 1949, 2,350 cfs Apr. 20, 1950 (gage height, 7.62 ft); maximum gage height, 7.67 ft Mar. 22, 1968.

Maximum stage since at least 1869, about 14.5 ft in November 1927, from information by local resident (discharge not determined).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Union Village Reservoir (see p. 209) since October 1949. Some regulation by Lake Fairlee.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	38	67	63	43	100	123	915	135	35	91	106
2	38	38	70	63	43	80	149	875	123	37	65	82
3	45	37	71	64	42	73	282	1,310	133	33	80	76
4	79	37	73	66	42	76	413	307	123	30	113	69
5	56	37	98	68	41	79	350	930	107	28	73	59
6	47	36	112	70	40	81	317	1,520	97	27	52	66
7	42	35	112	67	40	82	347	1,550	91	27	42	81
8	38	34	97	65	41	84	293	1,260	86	26	39	71
9	36	32	76	63	43	85	261	1,130	96	25	36	62
10	34	32	76	61	45	86	342	1,120	79	21	32	56
11	32	38	78	58	47	78	486	995	71	22	34	52
12	32	43	80	57	49	78	840	553	71	21	39	54
13	34	40	78	55	51	78	1,060	507	62	20	35	74
14	39	38	76	54	54	78	1,240	460	57	27	31	83
15	52	42	74	53	65	91	850	376	53	31	28	88
16	76	58	70	52	90	166	677	339	53	26	26	77
17	56	55	75	51	150	227	585	338	50	28	25	67
18	47	47	77	51	110	210	632	306	43	34	24	64
19	43	47	76	50	95	169	970	270	42	43	24	61
20	40	56	72	49	83	145	1,370	245	39	111	22	59
21	38	64	70	48	75	140	1,280	242	39	47	22	64
22	39	67	71	47	74	130	1,370	268	52	35	23	60
23	71	71	74	47	74	125	1,290	227	44	30	23	55
24	67	70	70	46	73	120	970	203	38	31	27	52
25	55	65	69	46	73	115	995	198	43	35	24	53
26	50	62	67	45	72	115	905	347	113	32	22	48
27	47	61	65	45	72	110	875	264	58	28	23	42
28	45	61	64	45	95	110	890	231	45	27	446	41
29	42	64	63	45	------	115	1,160	207	40	42	284	41
30	40	65	63	45	------	115	1,030	185	37	108	152	41
31	39	------	63	44	------	120	------	169	------	91	142	------
TOTAL	1,438	1,470	2,347	1,683	1,822	3,461	22,352	17,847	2,120	1,158	2,099	1,904
MEAN	46.4	49.0	75.7	54.3	65.1	112	745	576	70.7	37.4	67.7	63.5
MAX	79	71	112	70	150	227	1,370	1,550	135	111	446	106
MIN	32	32	63	44	40	73	123	169	37	20	22	41
MEAN†	46.4	51.5	79.9	53.7	63.9	110	746	572	70.4	37.4	67.9	63.3
CFSM†	.36	.40	.61	.41	.49	.85	5.74	4.40	.54	.29	.52	.49
IN.†	.41	.44	.71	.48	.51	.98	6.40	5.07	.60	.33	.60	.54

CAL YR 1970 TOTAL 61,365 MEAN 168 MAX 1,750 MIN 16 MEAN† 168 CFSM† 1.29 IN† 17.56
WTR YR 1971 TOTAL 59,701 MEAN 164 MAX 1,550 MIN 20 MEAN† 164 CFSM† 1.26 IN† 17.08

† Adjusted for change in contents in Union Village Reservoir.

01141800 Mink Brook near Etna, N.H.

LOCATION.--Lat 43°42'08", long 72°11'15", Grafton County, on left bank 2 miles northeast of Etna and 5 miles east of Hanover.

DRAINAGE AREA.--4.60 sq mi.

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 5.66 cfs (16.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 181 cfs May 3 (gage height, 2.83 ft), minimum, 0.06 cfs Aug. 19-21.
Period of record: Maximum discharge, 515 cfs July 29, 1969 (gage height, 3.71 ft), from rating curve extended above 130 cfs; maximum gage height, 4.19 ft Mar. 26, 1963 (backwater from ice); minimum discharge, 0.01 cfs Aug. 11, 1964.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.8	4.2	1.9	1.4	3.8	5.0	28	5.3	.63	.73	.42
2	1.3	1.8	3.6	1.9	1.3	3.5	8.0	30	4.2	.58	.58	.33
3	6.9	1.6	3.6	1.8	1.3	3.3	15	68	5.0	.57	.73	.24
4	6.9	1.5	12	1.8	1.3	3.3	19	92	4.6	.48	1.2	.21
5	3.0	1.5	6.9	3.0	1.1	3.3	16	43	3.6	.39	.72	.18
6	1.9	1.5	4.0	2.5	1.4	3.0	15	30	3.0	.30	.52	.42
7	1.6	1.3	3.0	2.0	1.3	2.7	14	23	2.5	.24	.38	.43
8	1.3	1.3	2.7	2.0	1.3	2.5	13	19	2.1	.17	.27	.32
9	1.2	1.3	2.5	1.9	1.4	2.3	12	20	2.5	.13	.17	.22
10	.96	1.3	2.9	1.9	1.4	2.3	15	17	1.9	.12	.15	.19
11	.96	1.5	2.9	2.0	1.4	2.3	21	14	1.5	.10	.14	.13
12	.96	1.6	2.9	2.0	1.4	2.3	35	13	1.2	.08	.14	.46
13	1.9	1.6	2.7	1.7	1.8	2.3	45	17	1.2	.08	.12	1.0
14	2.3	1.6	2.4	1.7	4.0	2.5	50	16	1.2	.17	.10	.85
15	2.3	3.6	2.5	1.6	6.0	5.0	40	12	.96	.13	.09	.85
16	3.9	4.2	2.4	1.5	5.0	14	25	10	.96	.13	.09	.58
17	2.5	2.8	2.4	1.5	4.0	8.5	21	10	.85	.12	.08	.58
18	2.1	2.3	2.4	1.5	3.5	8.0	22	9.1	.85	.11	.07	.58
19	1.6	3.3	2.4	1.5	3.0	6.8	27	7.6	.75	.76	.07	.43
20	1.5	5.0	2.4	1.5	3.0	5.6	50	6.5	.66	1.2	.06	.37
21	1.5	9.1	2.1	1.4	3.0	5.0	60	6.1	.58	.59	.06	.66
22	1.8	5.7	2.1	1.4	3.0	5.0	50	9.7	1.1	.36	.15	.58
23	6.1	5.3	2.1	1.4	3.0	5.0	33	7.2	.75	.22	.12	.31
24	5.0	3.9	2.3	1.4	3.0	4.6	33	6.1	.58	.14	.09	.26
25	3.3	2.8	2.5	1.4	2.5	4.6	34	10	3.3	.21	.08	.15
26	2.8	2.1	2.2	1.4	2.5	4.6	31	28	6.1	.20	.07	.13
27	2.3	2.3	1.9	1.6	3.5	4.6	29	12	1.6	.75	.10	.12
28	2.1	3.0	1.9	1.6	5.0	4.6	26	9.7	1.1	.49	2.1	.11
29	1.9	3.6	1.9	1.6	------	4.6	44	7.6	.80	.65	1.9	.11
30	1.8	4.2	1.9	1.7	------	5.0	32	6.9	.72	1.0	.87	.10
31	1.8	------	1.9	1.6	------	4.6	------	6.1	------	.78	.64	------
TOTAL	77.38	84.4	93.6	53.7	71.8	139.5	840.0	594.6	61.46	11.88	12.59	11.32
MEAN	2.50	2.81	3.02	1.73	2.56	4.50	28.0	19.2	2.05	.38	.41	.38
MAX	6.9	9.1	12	3.0	6.0	14	60	92	6.1	1.2	2.1	1.0
MIN	.96	1.3	1.9	1.4	1.1	2.3	5.0	6.1	.58	.08	.06	.10
CFSM	.54	.61	.66	.38	.56	.98	6.09	4.17	.45	.08	.09	.08
IN.	.63	.68	.76	.43	.58	1.13	6.79	4.81	.50	.10	.10	.09

CAL YR 1970 TOTAL 2,175.40 MEAN 5.96 MAX 65 MIN .05 CFSM 1.30 IN 17.59
WTR YR 1971 TOTAL 2,052.23 MEAN 5.62 MAX 92 MIN .06 CFSM 1.22 IN 16.60

PEAK DISCHARGE (BASE, 55 CFS)

NOTE.--No gage-height record Apr. 3-22.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13 or 14	-	-	† -				
4-20 or 21	-	-	† -				
5-3	2345	2.83	181				
5-25	2400	2.26	66				

† Unknown

01142500 Ayers Brook at Randolph, Vt.

LOCATION.--Lat 43°56'03", long 72°39'30", Orange County, on right bank 55 ft upstream from bridge on State Highway 12, just north of village limits of Randolph, 0.4 mile upstream from Adams Brook, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--30.5 sq mi.

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.75 ft above mean sea level (levels by Corps of Engineers); prior to Oct. 1, 1964, datum was 1.00 ft higher.

AVERAGE DISCHARGE.--32 years, 43.9 cfs (19.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 656 cfs May 4 (gage height, 4.86 ft); minimum, 2.7 cfs July 12, 13, Aug. 19.
Period of record: Maximum discharge, 3,490 cfs June 1, 1952 (gage height, 8.58 ft, present datum), from rating curve extended above 500 cfs; minimum, 0.6 cfs July 27, 1965.
Maximum stage since at least 1830, about 17 ft (present datum) in November 1927.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.5	21	15	10	22	28	232	37	8.8	14	14
2	7.1	8.2	19	15	10	20	33	227	34	12	27	12
3	8.8	7.9	19	15	9.8	19	60	369	35	9.1	29	11
4	11	7.7	26	15	9.6	18	90	508	33	7.7	35	9.5
5	9.1	7.7	24	16	9.5	18	72	328	30	6.6	19	17
6	8.5	7.7	21	17	9.4	19	75	277	29	6.0	13	70
7	7.7	7.7	17	15	9.4	20	81	241	27	6.4	10	28
8	7.4	8.4	14	13	9.8	19	73	208	25	5.6	8.2	21
9	7.1	7.7	18	13	11	19	68	195	28	4.8	7.2	17
10	6.4	7.4	19	14	12	19	87	167	23	4.4	6.4	15
11	6.0	9.3	17	15	13	19	95	147	21	3.8	7.4	14
12	6.4	12	18	14	12	19	158	127	20	3.5	8.2	27
13	6.6	10	17	13	12	18	203	120	19	3.2	6.1	30
14	7.4	9.6	17	12	15	19	193	107	17	8.5	5.2	30
15	8.2	11	16	12	25	20	162	89	17	7.9	4.8	29
16	10	17	15	12	23	43	152	80	18	5.6	4.6	24
17	8.8	14	16	11	22	50	135	79	16	5.2	4.0	32
18	7.9	12	17	11	22	40	156	72	14	7.4	3.6	29
19	7.4	14	17	11	21	36	229	64	13	7.4	3.3	25
20	7.1	27	17	11	20	35	385	58	12	20	3.0	22
21	7.1	30	16	11	19	33	396	70	11	9.5	3.3	25
22	7.7	23	13	11	18	30	335	84	15	6.6	3.5	22
23	26	23	17	11	17	28	270	62	12	5.4	12	19
24	17	20	16	11	17	27	234	55	10	5.4	7.7	17
25	13	17	16	11	17	26	241	54	11	9.5	5.6	15
26	11	14	16	12	16	25	224	67	29	6.6	4.8	15
27	10	14	16	12	17	25	232	61	16	7.2	9.5	14
28	9.6	15	16	11	23	26	245	55	12	6.9	159	14
29	9.1	22	15	11	------	27	291	50	10	16	37	14
30	8.8	20	15	11	------	27	241	45	9.3	25	24	13
31	8.5	------	15	11	------	28	------	41	------	17	18	------
TOTAL	284.4	412.8	536	393	429.5	794	5,244	4,340	602.3	259.0	503.4	644.5
MEAN	9.17	13.8	17.3	12.7	15.3	25.6	175	140	20.1	8.35	16.2	21.5
MAX	26	30	26	17	25	50	396	508	37	25	159	70
MIN	6.0	7.4	13	11	9.4	18	28	41	9.3	3.2	3.0	9.5
CFSM	.30	.45	.57	.42	.50	.84	5.74	4.59	.66	.27	.53	.70
IN.	.35	.50	.65	.48	.52	.97	6.40	5.29	.73	.32	.61	.79

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CAL YR 1970   TOTAL 15,747.2   MEAN 43.1   MAX 454   MIN 3.0   CFSM 1.41   IN 19.21
WTR YR 1971   TOTAL 14,442.9   MEAN 39.6   MAX 508   MIN 3.0   CFSM 1.30   IN 17.62
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PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	2300	4.71	604				
5-4	0800	4.86	656				

01144000 White River at West Hartford, Vt.

LOCATION.--Lat 43°42'51", long 72°25'07", Windsor County, on left bank 700 ft upstream from highway bridge at West Hartford and 7.4 miles upstream from mouth.

DRAINAGE AREA.--690 sq mi.

PERIOD OF RECORD.--June 1915 to current year. October 1927 to September 1928 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 374.53 ft above mean sea level. Prior to Oct. 30, 1927, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--56 years, 1,150 cfs (22.63 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,300 cfs May 4 (gage height, 11.72 ft); minimum, 114 cfs Aug. 21.
Period of record: Maximum discharge, 120,000 cfs Nov. 4, 1927 (gage height, 29.3 ft, from floodmarks), from rating curve extended above 22,000 cfs on basis of slope-area measurement of peak flow; minimum observed, about 35 cfs Aug. 4, 1918; minimum daily, 54 cfs Sept. 27, 28, 1963. Stage and discharge of the flood of Nov. 4, 1927, are the greatest since at least 1760.

REMARKS.--Records good except those for winter period, which are fair. Some diurnal fluctuation at low flow during period 1934-50 caused by powerplant above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1928(M). WSP 1031: 1916(m), 1923. WSP 1301: 1916-26(M), 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	291	705	330	240	600	600	5,690	1,020	232	419	599
2	240	275	633	345	235	500	640	5,950	910	246	343	471
3	229	264	599	360	230	470	1,500	8,610	882	268	538	392
4	322	257	701	330	225	450	2,400	12,900	882	223	1,290	339
5	347	250	805	340	225	400	1,880	9,020	784	203	750	306
6	302	246	705	370	220	450	1,790	7,890	699	191	476	467
7	260	236	520	390	220	480	1,820	6,830	657	179	352	587
8	236	229	390	350	230	460	1,660	6,250	616	167	294	452
9	216	223	433	300	250	480	1,560	5,890	633	164	246	369
10	203	216	570	310	270	450	2,000	5,020	610	153	219	310
11	194	229	520	330	280	450	2,410	5,090	532	142	194	275
12	188	279	481	350	290	450	3,700	4,640	506	136	207	272
13	191	275	460	310	300	440	5,040	4,360	476	132	207	491
14	203	260	420	280	330	420	5,710	3,560	443	139	182	548
15	236	260	390	265	500	450	4,290	2,760	419	200	164	597
16	425	343	320	260	650	750	3,640	2,440	387	197	156	543
17	433	392	310	255	600	1,300	3,000	2,340	383	173	142	447
18	365	347	340	250	510	920	3,290	2,160	365	194	132	570
19	322	335	360	250	590	920	4,310	1,950	339	216	126	452
20	314	512	375	245	470	780	7,660	1,760	314	481	122	396
21	294	913	350	240	440	760	8,670	1,680	302	356	122	383
22	279	1,130	300	245	420	680	7,710	2,240	339	240	119	424
23	611	910	260	255	400	650	6,070	1,770	335	197	136	361
24	970	875	330	260	400	620	4,950	1,500	272	182	257	322
25	651	645	360	265	390	600	5,440	1,390	275	164	226	294
26	517	532	350	265	390	580	4,820	1,770	570	185	182	272
27	438	527	350	270	390	570	4,920	1,910	452	188	161	260
28	387	491	350	265	510	580	5,440	1,640	335	176	2,340	246
29	352	645	340	260	------	590	6,700	1,440	275	188	3,410	246
30	327	681	340	250	------	600	6,030	1,270	254	484	1,280	250
31	302	------	330	240	------	600	------	1,140	------	457	826	------
TOTAL	10,629	13,068	13,687	9,035	10,105	18,350	119,650	122,760	15,266	6,853	15,618	11,931
MEAN	343	436	442	291	361	592	3,988	3,960	509	221	504	398
MAX	970	1,130	805	390	650	1,300	8,670	12,900	1,020	484	3,410	599
MIN	188	216	260	240	220	400	600	1,140	254	132	119	246
CFSM	.50	.63	.64	.42	.52	.86	5.78	5.74	.74	.32	.73	.58
IN.	.57	.70	.74	.49	.54	.99	6.45	6.62	.82	.37	.84	.64

CAL YR 1970 TOTAL 383,924 MEAN 1,052 MAX 14,200 MIN 90 CFSM 1.52 IN 20.70
WTR YR 1971 TOTAL 366,952 MEAN 1,005 MAX 12,900 MIN 119 CFSM 1.46 IN 19.78

PEAK DISCHARGE (BASE, 11,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1030	11.72	14,300				

01144500 Connecticut River at White River Junction, Vt.

LOCATION.--Lat 43°38'49", long 72°18'53", Windsor County, on right bank 50 ft downstream from railroad bridge at White River Junction, 500 ft downstream from White River, and at mile 215.0.

DRAINAGE AREA.--4,092 sq mi.

PERIOD OF RECORD.--October 1911 to current year.

GAGE.--Water-stage recorder. Datum of gage is 321.52 ft above mean sea level. Prior to June 16, 1918, nonrecording gage on downstream side of pier of railroad bridge 50 ft upstream at same datum. June 16, 1918, to Nov. 2, 1930, nonrecording gage at various locations on upstream and downstream sides of railroad bridge at same datum.

AVERAGE DISCHARGE.--60 years, 7,014 cfs (23.28 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 45,300 cfs May 4 (gage height, 18.34 ft); minimum daily, 170 cfs Aug. 22.

Period of record: Maximum discharge, 136,000 cfs Nov. 4, 1927 (gage height, 35.0 ft, present site), from rating curve extended above 70,000 cfs; minimum daily, 82 cfs Aug. 8, 1965.

Stage and discharge of the flood of Nov. 4, 1927, are the greatest since at least 1760.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Union Village Reservoir (see p. 209), and other reservoirs (combined usable capacity, about 17.2 billion cubic feet).

REVISIONS (WATER YEARS).--WSP 741: 1932 (adjusted monthly and yearly figures only). WSP 781: 1928(M). WSP 891: Drainage area. WSP 1301: 1922-26(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,200	391	6,850	800	3,900	3,800	5,300	27,000	6,800	2,570	1,630	3,510
2	3,200	3,050	5,480	1,200	4,500	5,200	5,800	27,300	6,610	2,610	2,790	3,730
3	1,100	2,870	6,090	600	2,400	5,000	7,570	32,200	5,550	670	2,980	5,530
4	3,150	2,550	7,670	3,000	2,400	5,400	9,780	43,200	5,290	762	6,630	1,360
5	5,550	2,480	5,370	2,600	4,200	6,000	9,600	40,500	3,230	990	7,160	1,330
6	6,140	2,230	2,560	2,500	1,200	2,200	9,400	36,700	2,340	2,160	4,310	592
7	7,190	1,430	5,000	4,000	1,100	2,200	11,200	33,100	6,170	1,310	1,460	3,750
8	4,660	1,010	4,200	3,200	3,200	5,800	8,980	25,800	5,700	2,100	1,010	3,710
9	6,060	2,480	4,100	1,300	3,200	5,600	9,540	25,900	5,770	1,530	4,050	4,810
10	2,640	2,780	3,700	1,400	3,000	5,200	8,950	26,900	6,450	1,600	3,580	1,750
11	313	2,660	4,100	3,600	2,500	4,800	8,960	27,900	4,780	188	2,880	685
12	2,540	3,280	2,070	3,500	2,500	6,600	13,500	27,700	4,260	1,380	1,860	1,610
13	3,490	3,270	1,410	4,500	400	2,500	23,600	27,300	2,720	1,100	1,370	3,570
14	2,720	2,380	4,610	3,100	350	2,000	26,400	26,700	3,500	2,340	837	4,250
15	3,720	2,490	3,500	2,200	1,500	5,400	22,500	23,600	3,700	1,430	245	4,780
16	5,820	5,400	4,100	1,800	4,700	7,600	20,500	18,400	2,890	1,660	1,740	4,760
17	5,340	4,790	3,980	300	5,000	7,600	17,700	12,200	2,370	990	1,740	4,200
18	2,620	4,060	3,210	5,000	4,200	9,000	14,700	13,900	2,980	708	3,340	2,100
19	4,610	2,670	1,670	4,600	3,600	8,600	16,100	12,600	1,590	2,610	1,130	2,400
20	5,130	2,070	1,720	3,700	1,800	8,400	27,000	14,000	346	2,650	1,230	2,500
21	4,710	1,510	4,200	2,600	1,100	7,800	33,900	13,200	4,940	2,530	221	3,000
22	4,910	5,650	4,200	2,700	5,000	7,400	35,000	13,000	2,700	1,860	170	4,600
23	3,660	7,150	4,400	1,400	4,700	6,600	33,000	12,400	2,200	2,330	2,840	4,400
24	3,950	5,640	3,700	300	3,200	6,000	28,300	11,000	4,900	864	2,350	3,300
25	1,370	6,270	2,000	3,200	4,100	5,600	26,200	10,900	3,320	202	2,910	384
26	4,450	2,580	4,000	2,600	4,100	5,400	24,300	12,700	3,360	2,080	2,590	330
27	5,370	5,280	4,100	4,300	3,300	4,000	24,200	13,200	1,340	3,180	5,390	2,140
28	5,730	2,020	3,700	5,000	2,700	2,200	24,200	11,500	2,310	837	4,600	2,040
29	4,580	2,890	4,700	2,500	------	5,300	26,900	10,800	2,190	1,420	12,100	1,770
30	2,980	6,470	4,500	1,100	------	5,600	27,300	9,810	3,660	2,060	6,780	1,910
31	1,460	------	3,000	650	------	3,800	------	6,500	------	1,110	5,400	------
TOTAL	124,463	99,801	123,850	79,250	83,850	168,600	560,380	651,910	113,966	49,831	97,363	84,801
MEAN	4,015	3,327	3,995	2,556	2,995	5,439	18,680	21,030	3,799	1,607	3,141	2,827
MAX	7,190	7,150	7,670	5,000	5,000	9,000	35,000	43,200	6,800	3,180	12,100	5,530
MIN	313	391	1,410	300	350	2,000	5,300	6,500	346	188	170	330
MEAN†	4,229	3,082	3,095	1,868	2,421	3,874	19,560	24,070	3,783	1,606	3,256	2,531
CFSM†	1.03	.75	.76	.46	.59	.95	4.78	5.88	.92	.39	.80	.62
IN.†	1.19	.84	.87	.53	.62	1.09	5.33	6.78	1.03	.45	.92	.69

CAL YR 1970 TOTAL 2,389,155 MEAN 6,546 MAX 44,700 MIN 109 MEAN† 6,461 CFSM† 1.58 IN† 21.44
WTR YR 1971 TOTAL 2,238,105 MEAN 6,132 MAX 43,200 MIN 170 MEAN† 6,133 CFSM† 1.50 IN† 20.35

PEAK DISCHARGE (BASE, 34,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	0100	15.96	35,700				
5-4	1330	18.34	45,300				

† Adjusted for change in contents in First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and Union Village Reservoir.

01145000 Mascoma River at West Canaan, N. H.

LOCATION.--Lat 43°39'00", long 72°04'50", Grafton County, on right bank 45 ft downstream from Boston and Maine Railroad bridge, 0.9 mile east of West Canaan, 1.2 miles downstream from Indian River, 3.5 miles west of Canaan, and at mile 19.3.

DRAINAGE AREA.--80.5 sq mi.

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 835 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 114 cfs (19.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,470 cfs May 4 (gage height, 5.83 ft); minimum, 5.5 cfs Aug. 21.

Period of record: Maximum discharge, 3,780 cfs Mar. 27, 1953 (gage height, 8.94 ft), from rating curve extended above 1,900 cfs on basis of slope-area measurement at gage height 9.6 ft; minimum, 2.9 cfs Aug. 8, 17, 18, 19, 1965.

Flood in September 1938 reached a stage of 9.6 ft, from floodmarks (discharge, 4,310 cfs, from rating curve extended above 1,900 cfs as explained above).

REMARKS.--Records good except those for winter period or period of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	47	62	37	28	82	77	441	72	14	37	16
2	50	46	60	36	27	74	87	423	61	13	27	13
3	70	45	62	35	26	66	191	570	64	12	25	11
4	130	44	120	39	26	64	267	1,310	65	11	55	9.4
5	120	42	150	45	26	62	243	939	54	9.4	38	8.8
6	85	40	90	52	27	61	224	629	43	8.8	25	19
7	64	37	70	47	27	60	216	483	39	8.6	19	14
8	52	44	52	43	27	59	183	409	35	7.7	15	11
9	47	38	50	41	29	58	164	387	38	7.4	13	9.4
10	43	35	58	39	32	55	206	332	33	6.9	11	8.3
11	42	35	58	38	28	54	300	285	28	6.6	11	7.7
12	43	37	55	37	27	52	453	256	25	6.2	11	9.1
13	45	36	52	36	28	51	622	247	24	5.7	10	38
14	50	35	49	35	60	51	689	300	22	6.4	9.1	32
15	56	37	47	35	110	58	528	226	20	7.7	8.3	32
16	80	53	44	34	140	100	403	191	19	8.3	7.7	24
17	76	52	44	33	110	130	317	183	18	7.7	7.2	21
18	66	45	45	32	95	110	322	168	16	8.8	6.6	20
19	58	44	44	31	85	98	376	141	14	10	6.2	18
20	53	57	43	30	80	92	671	125	13	40	5.9	15
21	51	128	42	29	76	92	881	109	12	24	5.7	14
22	50	107	42	29	72	86	764	140	14	15	9.1	13
23	76	101	42	29	67	82	605	123	13	12	8.8	12
24	93	92	44	28	66	78	453	96	11	11	7.4	11
25	81	69	45	28	64	75	486	86	11	29	6.6	10
26	74	58	44	28	60	73	456	168	69	17	6.2	9.6
27	66	58	42	35	64	72	423	153	40	21	6.2	9.2
28	60	56	41	38	95	71	406	121	25	22	48	8.8
29	54	60	40	32	------	72	471	101	19	17	73	8.8
30	50	64	39	31	------	75	507	86	15	73	30	8.8
31	48	------	38	30	------	75	------	83	------	41	20	------
TOTAL	1,991	1,642	1,714	1,092	1,602	2,288	11,991	9,311	932	488.2	569.0	441.9
MEAN	64.2	54.7	55.3	35.2	57.2	73.8	400	300	31.1	15.7	18.4	14.7
MAX	130	128	150	52	140	130	881	1,310	72	73	73	38
MIN	42	35	38	28	26	51	77	83	11	5.7	5.7	7.7
CFSM	.80	.68	.69	.44	.71	.92	4.97	3.73	.39	.20	.23	.18
IN.	.92	.76	.79	.50	.74	1.06	5.54	4.30	.43	.23	.26	.20

CAL YR 1970 TOTAL 42,026.6 MEAN 115 MAX 1,030 MIN 3.6 CFSM 1.43 IN 19.42
WTR YR 1971 TOTAL 34,062.1 MEAN 93.3 MAX 1,310 MIN 5.7 CFSM 1.16 IN 15.74

PEAK DISCHARGE (BASE, 950 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1430	5.83	1,470				

NOTE.--No gage-height record Nov. 28 to Jan. 6.

01150500 Mascoma River at Mascoma, N. H.

LOCATION.--Lat 43°39'01", long 72°11'05", Grafton County, on left bank at Mascoma, 250 ft downstream from railroad bridge, 1,000 ft downstream from outlet of Mascoma Lake, and 9.9 miles upstream from mouth.

DRAINAGE AREA.--153 sq mi.

PERIOD OF RECORD.--August 1923 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (from topographic map).

AVERAGE DISCHARGE.--48 years, 210 cfs (18.64 inches per year), adjusted for storage since October 1928.

EXTREMES.--Current year: Maximum discharge, 1,540 cfs May 5 (gage height, 3.92 ft); minimum daily, 37 cfs Sept. 7.
Period of record: Maximum discharge, 5,840 cfs Mar. 19, 1936 (gage height, 7.50 ft), from rating curve extended above 2,500 cfs on basis of computations of flow over dams at gage heights 6.85 and 7.50 ft; minimum daily, 2 cfs Feb. 3, 1939, Sept. 1, 1940.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow regulated by Mascoma and Crystal Lakes and Goose and Grafton Ponds (see p. 209).

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 801: 1925(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	199	46	68	83	200	144	720	147	50	48	38
2	127	193	46	68	83	220	147	725	135	50	48	38
3	129	187	47	67	83	210	163	742	125	50	49	38
4	133	176	48	66	83	200	214	998	123	50	52	38
5	137	121	57	67	83	190	275	1,480	121	50	55	38
6	156	104	74	67	83	185	326	1,450	119	52	55	38
7	241	92	81	68	83	180	362	1,250	113	52	54	37
8	241	71	86	68	83	175	380	1,060	73	52	54	38
9	252	49	92	68	83	170	380	902	71	52	53	38
10	241	49	99	68	89	170	380	720	71	52	52	38
11	238	50	97	68	94	185	411	495	71	50	50	38
12	238	50	94	70	94	200	525	375	71	50	49	38
13	256	50	92	83	92	200	720	211	71	48	48	38
14	238	49	92	81	92	195	890	211	71	47	47	49
15	202	49	91	81	92	195	992	196	74	47	46	57
16	202	50	87	83	94	193	986	202	101	47	43	57
17	205	52	87	84	97	217	896	202	101	46	42	62
18	208	52	86	94	102	279	791	166	99	46	41	70
19	208	52	83	106	250	268	725	110	94	46	42	70
20	208	52	81	104	320	260	764	110	87	46	42	68
21	208	53	80	102	290	245	896	111	64	46	41	68
22	205	50	78	95	250	228	1,050	111	46	46	41	67
23	205	42	78	78	220	214	1,100	113	46	46	40	67
24	208	43	80	78	200	202	1,030	115	46	46	39	67
25	208	44	78	78	185	187	932	117	47	46	39	66
26	224	44	77	78	170	176	863	117	47	46	39	66
27	234	46	75	80	155	166	791	151	48	46	38	66
28	234	46	74	83	170	158	659	184	48	46	38	64
29	234	47	73	83	------	151	610	187	48	46	38	64
30	228	47	71	83	------	149	670	176	49	47	38	63
31	217	------	70	83	------	144	------	158	------	48	38	------
TOTAL	6,354	2,209	2,400	2,450	3,803	6,112	19,072	13,865	2,427	1,492	1,399	1,584
MEAN	205	73.6	77.4	79.0	136	197	636	447	80.9	48.1	45.1	52.8
MAX	256	199	99	106	320	279	1,100	1,480	147	52	55	70
MIN	89	42	46	66	83	144	144	110	46	46	38	37
MEAN†	94.0	85.4	107	67.0	96.2	133	862	526	42.8	19.9	22.6	15.4
CFSM†	.61	.56	.70	.44	.63	.87	5.63	3.44	.28	.13	.15	.10
IN.†	.71	.62	.80	.50	.66	1.00	6.29	3.96	.31	.15	.17	.11

CAL YR 1970 TOTAL 83,640 MEAN 229 MAX 1,340 MIN 24 MEAN† 216 CFSM† 1.41 IN† 19.17
WTR YR 1971 TOTAL 63,167 MEAN 173 MAX 1,480 MIN 37 MEAN† 172 CFSM† 1.12 IN† 15.29

† Adjusted for change in contents in Mascoma and Crystal Lakes and Goose and Grafton Ponds.
NOTE.--No gage-height record Feb. 19 to Mar. 15.

01150800 Kent Brook near Sherburne, Vt.

LOCATION.--Lat 43°40'24", long 72°48'33", Rutland County, on left bank 40 ft downstream from bridge on State Highway 100, 1.4 miles upstream from mouth, and 2 miles northwest of Sherburne.

DRAINAGE AREA.--3.31 sq mi.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (from topographic map). Prior to Sept. 13, 1967, at site 25 ft upstream at same datum.

AVERAGE DISCHARGE.--8 years, 7.40 cfs (30.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 85 cfs May 5 (gage height, 2.27 ft); minimum, 0.76 cfs July 13.

Period of record: Maximum discharge, 302 cfs Mar. 23, 1968 (gage height, 3.44 ft), from rating curve extended above 140 cfs on basis of measurement of flow through culvert at gage height 3.44 ft; maximum gage height, 4.42 ft Apr. 3, 1967, at former site; minimum discharge, 0.27 cfs Aug. 7, 8, 1965.

REMARKS.--Records good except those for winter period or periods of no gage-height record, which are fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.9	7.3	2.8	1.6	2.5	2.9	36	7.5	1.4	4.6	4.6
2	2.9	3.8	6.6	2.7	1.6	2.1	6.0	42	6.6	3.0	10	3.6
3	5.3	3.5	6.1	2.7	1.5	1.9	13	62	7.9	1.5	12	3.2
4	7.3	3.5	15	2.6	1.5	1.7	11	55	6.6	1.3	10	3.0
5	5.3	3.5	9.3	4.0	1.5	1.7	9.4	61	5.6	1.2	5.6	2.8
6	4.3	3.5	7.0	3.1	1.5	1.7	8.4	53	4.8	1.1	3.4	2.8
7	3.8	3.4	6.0	2.8	1.6	1.6	7.4	52	4.4	1.1	2.6	2.6
8	3.2	3.0	5.3	2.5	1.7	1.6	6.5	49	5.1	1.1	2.1	2.5
9	2.9	3.0	6.0	2.8	1.8	1.6	6.1	54	5.1	1.2	1.9	2.5
10	3.5	3.1	5.8	2.9	1.7	1.6	8.2	52	3.8	1.3	1.5	2.1
11	3.1	5.6	5.1	2.7	1.6	1.6	11	51	3.2	.98	3.8	2.1
12	3.6	4.3	4.8	2.5	1.7	1.6	19	48	3.2	.98	2.5	3.8
13	4.3	3.6	4.6	2.3	1.8	1.5	22	48	2.8	.83	1.8	8.2
14	4.3	3.5	4.5	2.3	2.5	1.5	18	32	2.6	2.6	1.5	5.1
15	11	4.8	4.3	2.2	3.2	1.6	16	26	2.3	1.8	1.4	7.5
16	7.3	7.1	4.1	2.1	2.4	5.2	13	25	2.3	1.4	1.4	4.8
17	5.6	5.0	3.8	2.1	2.2	4.2	12	26	2.3	2.5	1.2	3.8
18	5.1	4.3	4.1	2.1	1.9	3.6	11	24	2.1	1.7	1.2	3.8
19	4.6	7.8	3.6	2.1	1.8	3.3	32	25	2.1	10	1.2	3.2
20	4.1	11	3.6	2.0	1.7	2.9	40	24	1.8	7.5	1.1	2.8
21	3.9	27	3.3	2.0	1.6	2.7	41	29	2.1	2.5	1.2	6.1
22	12	13	2.7	2.0	1.5	2.5	31	26	2.2	1.7	1.8	3.4
23	20	22	3.3	2.0	1.5	2.4	19	17	1.9	1.3	4.6	2.5
24	9.7	10	3.5	1.9	1.4	2.3	17	14	1.5	1.2	1.9	2.5
25	7.3	7.6	3.2	1.9	1.4	2.2	17	15	6.1	1.1	2.3	2.2
26	6.3	7.5	3.0	1.9	1.4	2.2	15	22	6.1	1.1	1.3	2.2
27	5.6	5.8	2.9	2.3	1.5	2.2	22	16	2.3	1.7	2.6	2.2
28	5.1	9.3	2.9	2.0	3.2	2.2	27	13	1.9	1.3	29	2.1
29	4.8	9.3	2.9	1.8	------	2.2	35	11	1.7	3.4	19	2.1
30	4.5	5.7	2.9	1.7	------	2.3	29	9.3	1.4	3.0	8.6	2.1
31	4.1	------	2.9	1.7	------	2.6	------	8.6	------	11	5.9	------
TOTAL	178.2	212.4	150.4	72.5	50.3	70.8	525.9	1,025.9	109.3	73.79	149.0	102.2
MEAN	5.75	7.08	4.85	2.34	1.80	2.28	17.5	33.1	3.64	2.38	4.81	3.41
MAX	20	27	15	4.0	3.2	5.2	41	62	7.9	11	29	8.2
MIN	2.9	3.0	2.7	1.7	1.4	1.5	2.9	8.6	1.4	.83	1.1	2.1
CFSM	1.74	2.14	1.47	.71	.54	.69	5.29	10.0	1.10	.72	1.45	1.03
IN.	2.00	2.39	1.69	.81	.57	.80	5.91	11.53	1.23	.83	1.67	1.15

CAL YR 1970 TOTAL 2,582.99 MEAN 7.08 MAX 58 MIN .75 CFSM 2.14 IN 29.03
WTR YR 1971 TOTAL 2,720.69 MEAN 7.45 MAX 62 MIN .83 CFSM 2.25 IN 30.58

PEAK DISCHARGE (BASE, 90 CFS).--No peak above base.

NOTE.--No gage-height record Feb. 2 to Mar. 9, Mar. 12 to Apr. 8.

01151500 Ottauquechee River at North Hartland, Vt.

LOCATION.--Lat 43°36'09", long 72°21'17", Windsor County, on left bank 100 ft upstream from highway bridge at North Hartland, 0.3 mile downstream from North Hartland Dam, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--221 sq mi.

PERIOD OF RECORD.--October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 336.77 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--41 years, 380 cfs (23.35 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,540 cfs Apr. 21 (gage height, 6.96 ft); minimum, 7.4 cfs Aug. 20; minimum daily, 17 cfs Aug. 23, 24.
Period of record: Maximum discharge, 24,400 cfs Sept. 21, 1938 (gage height, 17.68 ft), from rating curve extended above 6,200 cfs on basis of computations of flow over dams at gage heights 15.58, 17.68, and 21.5 ft; minimum, 2.9 cfs July 31, 1933; minimum daily, 3.8 cfs July 3, 1933. Maximum discharge since construction of North Hartland Dam in March 1961, 5,930 cfs Apr. 26, 1969 (gage height, 8.52 ft).
Maximum stage since at least 1760, 21.5 ft in November 1927, from floodmarks (discharge, 30,400 cfs, by computation of peak flow over dam).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow regulated by powerplants above station and by North Hartland Lake (see p. 209) since March 1961; greater regulation by powerplants prior to 1958. Small seasonal storage in reservoir at Plymouth.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	88	190	118	105	263	286	1,820	310	98	191	142
2	83	88	210	125	100	235	333	1,880	292	97	146	100
3	83	88	225	128	98	224	666	2,920	286	100	148	103
4	139	88	225	128	96	202	893	2,630	284	82	165	97
5	166	88	320	126	94	185	673	2,720	280	74	144	94
6	164	88	370	139	92	200	653	2,960	242	70	109	91
7	148	88	370	155	95	202	658	2,200	213	66	94	94
8	92	88	330	155	96	194	562	2,550	204	61	78	88
9	40	88	450	140	94	193	524	2,130	207	58	80	83
10	72	88	480	122	96	195	719	1,610	186	59	65	69
11	86	88	450	126	100	185	949	1,420	168	58	59	61
12	69	88	340	137	100	187	1,400	1,273	157	53	74	73
13	61	88	230	130	100	189	1,820	1,240	148	48	78	125
14	61	88	200	124	110	180	2,100	1,070	138	52	60	136
15	81	88	170	122	145	207	1,620	848	132	67	55	140
16	88	88	150	120	350	459	1,340	756	128	123	43	134
17	111	115	150	115	249	666	1,100	719	121	136	52	114
18	120	130	160	115	196	458	1,220	658	112	78	45	121
19	118	130	174	110	195	388	1,720	605	106	73	42	114
20	91	130	176	110	197	334	2,730	565	100	259	27	97
21	81	170	164	105	180	368	3,280	543	97	154	21	105
22	81	310	148	105	175	324	2,830	704	117	103	18	119
23	82	370	117	100	173	292	2,190	545	108	85	17	97
24	164	370	141	100	170	283	1,750	452	94	67	17	85
25	204	370	146	100	166	275	1,920	416	100	70	28	85
26	201	250	150	105	164	270	1,620	788	274	64	44	84
27	201	190	150	110	169	268	1,600	596	170	65	48	80
28	199	190	144	110	253	276	1,690	502	123	69	673	70
29	122	190	141	105	------	285	2,270	441	105	69	802	69
30	179	190	135	105	------	284	1,990	396	96	196	305	61
31	109	------	128	105	------	285	------	367	------	114	196	------
TOTAL	3,568	4,513	6,934	3,696	4,158	8,556	43,116	38,221	5,098	2,758	3,928	2,931
MEAN	115	150	224	119	149	276	1,437	1,233	170	89.0	127	97.7
MAX	204	370	480	155	350	666	3,280	2,960	310	259	802	142
MIN	40	88	117	100	92	180	286	367	94	48	17	61
MEAN†	111	155	184	119	150	276	1.437	1,233	170	82.8	134	96.8
CFSM†	.50	.70	.83	.54	.68	1.25	6.50	5.58	.77	.37	.61	.44
IN.†	.58	.78	.96	.62	.70	1.44	7.26	6.43	.86	.43	.70	.49

CAL YR 1970 TOTAL 129,770.6 MEAN 356 MAX 3,350 MIN 9.6 MEAN† 355 CFSM† 1.61 IN† 21.84
WTR YR 1971 TOTAL 127,477 MEAN 349 MAX 3,280 MIN 17 MEAN† 346 CFSM† 1.57 IN† 21.25

† Adjusted for change in contents in North Hartland Lake.
NOTE.--No gage-height record Nov. 13 to Dec. 17.

01152500 Sugar River at West Claremont, N.H.

LOCATION.--Lat 43°23'15", long 72°21'45", Sullivan County, on right bank 0.2 mile downstream from Redwater Brook at West Claremont, and 2.4 miles upstream from mouth.

DRAINAGE AREA.--269 sq mi.

PERIOD OF RECORD.--May 1928 to current year. Published as "at Claremont" prior to October 1928.

GAGE.--Water-stage recorder. Datum of gage is 358.78 ft above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1928, nonrecording gage at site 0.8 mile upstream at different datum.

AVERAGE DISCHARGE.--43 years, 389 cfs (19.64 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,410 cfs May 4 (gage height, 5.97 ft); minimum daily, 55 cfs July 13, Aug. 24-26.
Period of record: Maximum discharge, 14,000 cfs Mar. 19, 1936 (gage height, 10.92 ft), from rating curve extended above 6,700 cfs on basis of computations of flow over dam at gage heights 10.49 and 10.92 ft; maximum gage height, 11.80 ft Mar. 12, 1936 (ice jam); minimum daily discharge, 14 cfs Aug. 26, 1965.

REMARKS.--Records excellent except those for winter period, which are fair. Regulation by Sunapee Lake 25 miles upstream (see p. 209) and at low flow by mills above station.

REVISIONS (WATER YEARS).--WSP 711: 1930(M). WSP 756: Drainage area. WSP 1901: 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	178	280	140	95	352	427	1,450	195	95	125	86
2	130	168	270	145	93	330	493	1,310	174	98	105	78
3	137	155	260	140	91	307	1,020	1,680	181	88	93	70
4	292	149	700	130	90	278	1,380	3,610	188	76	125	67
5	256	147	550	140	90	270	1,270	2,940	169	74	118	63
6	182	143	400	170	94	289	1,200	2,200	155	72	55	62
7	156	134	300	180	94	277	1,090	1,730	140	72	88	60
8	139	131	220	160	94	261	856	1,470	137	72	80	60
9	129	131	153	140	100	261	765	1,480	165	68	72	60
10	113	128	224	160	110	253	948	1,460	149	65	67	58
11	112	130	200	150	120	307	1,360	1,240	126	63	70	56
12	115	138	202	120	115	345	1,970	1,090	115	70	76	72
13	118	142	154	125	130	341	2,460	1,180	110	55	72	74
14	111	138	156	150	230	333	2,700	1,500	100	65	65	76
15	220	152	166	150	280	357	2,080	1,070	95	56	62	90
16	534	250	157	150	300	582	1,620	841	95	60	62	88
17	531	240	187	145	290	812	1,240	739	95	63	58	90
18	354	210	187	145	280	751	1,210	610	99	58	58	86
19	274	220	180	145	270	712	1,450	515	88	76	56	80
20	222	350	170	140	260	639	2,330	433	86	103	56	74
21	193	600	150	135	250	627	2,590	383	80	82	58	108
22	188	450	130	130	240	591	2,330	393	80	72	58	76
23	257	550	150	125	230	567	1,940	381	80	68	60	70
24	365	450	155	120	216	533	1,550	335	78	67	55	67
25	338	380	160	115	205	528	1,600	310	90	67	55	63
26	281	290	170	115	208	503	1,430	304	140	63	55	62
27	245	260	165	110	246	481	1,320	281	135	63	58	60
28	216	260	160	105	321	472	1,250	256	113	62	162	60
29	196	270	155	105	------	455	1,680	236	98	63	247	60
30	181	300	150	100	------	455	1,730	229	90	68	140	58
31	183	------	145	97	------	431	------	217	------	82	105	------
TOTAL	7,319	7,244	6,926	4,182	5,142	13,740	45,319	31,864	3,636	2,206	2,665	2,132
MEAN	236	241	223	135	184	443	1,511	1,028	121	71.2	86.0	71.1
MAX	534	600	700	180	321	812	2,700	3,610	195	103	247	108
MIN	111	128	130	97	90	253	427	217	78	55	55	56
MEAN†	235	236	223	128	200	385	1,686	1,023	85.7	25.2	113	-31.6
CFSM†	.87	.88	.83	.48	.74	1.43	6.27	3.80	.32	.09	.42	-.12
IN.†	1.01	.98	.96	.55	.77	1.65	7.00	4.39	.36	.11	.49	-.13

CAL YR 1970 TOTAL 154,945 MEAN 425 MAX 3,140 MIN 55 MEAN† 420 CFSM† 1.56 IN† 21.18
WTR YR 1971 TOTAL 132,375 MEAN 363 MAX 3,610 MIN 55 MEAN† 359 CFSM† 1.33 IN† 18.12

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1700	5.97	4,410				

† Adjusted for change in contents in Sunapee Lake. (Negative figures indicate that evaporation and seepage from lake exceeded inflow.)

01153000 Black River at North Springfield, Vt.

LOCATION.--Lat 43°20'00", long 72°30'55", Windsor County, on right bank at North Springfield, 800 ft downstream from North Springfield Dam, 1,300 ft upstream from Great Brook, and 8.1 miles upstream from mouth.

DRAINAGE AREA.--158 sq mi.

PERIOD OF RECORD.--October 1929 to current year. October 1929 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 445.79 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--42 years, 273 cfs (23.46 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,900 cfs May 6 (gage height, 6.13 ft); minimum daily, 24 cfs Aug. 19-27.
Period of record: Maximum discharge, 15,500 cfs Sept. 22, 1938 (gage height, 17.68 ft), from rating curve extended above 3,200 cfs on basis of computations of flow over dams at gage heights 16.41 and 17.68 ft; minimum daily, 8.0 cfs July 8, 1962. Maximum discharge since construction of North Springfield Dam in 1960, 3,550 cfs Apr. 11, 1962 (gage height, 6.43 ft); maximum gage height, 6.47 ft Apr. 29, 1969.

REMARKS.--Records excellent except those for winter period, which are good. Flow regulated by mills above station and by North Springfield Lake (see p. 209) since November 1960.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1931(M), 1934(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	73	179	97	68	300	222	1,340	210	31	29	60
2	67	73	132	95	68	245	265	1,400	175	32	30	45
3	82	69	157	101	68	218	495	1,910	172	31	30	45
4	113	62	265	97	70	206	698	2,350	169	31	35	45
5	76	64	270	96	66	209	594	2,240	155	31	49	45
6	29	61	220	118	72	204	552	2,390	145	31	52	45
7	26	58	180	131	75	200	540	1,670	125	31	53	45
8	27	53	110	125	92	189	466	1,490	120	31	53	45
9	27	52	130	110	84	194	413	1,500	160	31	43	45
10	27	53	41	111	80	175	524	1,510	128	31	34	39
11	28	64	76	106	78	164	678	1,310	106	31	32	35
12	41	80	269	105	72	166	1,030	1,210	90	31	32	36
13	71	80	143	100	70	159	1,390	1,150	86	31	28	36
14	80	80	122	98	88	158	1,550	1,100	63	32	26	54
15	103	95	114	100	140	179	1,290	841	46	35	26	63
16	177	127	92	95	220	321	1,030	660	37	35	26	96
17	134	134	94	90	235	464	844	594	25	35	26	99
18	99	127	114	84	191	341	893	490	33	35	26	72
19	94	122	118	80	176	283	1,230	450	33	31	24	51
20	66	213	120	78	161	269	1,970	400	33	28	24	44
21	61	308	115	75	149	257	2,470	319	33	31	24	44
22	73	326	100	74	154	265	2,200	432	33	31	24	44
23	134	363	87	74	144	234	1,750	401	31	31	24	44
24	202	355	113	73	145	221	1,330	338	29	31	24	44
25	183	255	113	72	137	209	1,440	308	30	31	24	41
26	153	190	108	76	135	207	1,200	503	30	31	24	41
27	117	168	109	80	155	196	1,170	439	31	31	24	41
28	113	165	102	76	252	212	1,210	325	31	30	164	41
29	99	165	101	74	------	214	1,610	271	31	30	418	41
30	86	170	105	71	------	217	1,520	262	31	31	272	41
31	80	------	91	69	------	222	------	240	------	30	108	------
TOTAL	2,734	4,205	4,078	2,829	3,481	7,130	32,574	29,843	2,421	973	1,808	1,456
MEAN	88.2	140	132	91.3	124	230	1,086	963	80.7	31.4	58.3	48.5
MAX	202	363	270	131	252	464	2,470	2,390	210	35	418	99
MIN	26	52	41	69	66	158	222	240	25	28	24	35
MEAN†	96.9	141	131	91.3	125	230	1,090	960	97.2	36.9	61.7	48.1
CFSM†	.61	.89	.83	.58	.79	1.46	6.90	6.08	.62	.23	.39	.30
IN.†	.71	1.00	.95	.67	.82	1.68	7.70	7.01	.69	.27	.45	.34

CAL YR 1970 TOTAL 96,399 MEAN 264 MAX 2,300 MIN 19 MEAN† 264 CFSM† 1.67 IN† 22.69
WTR YR 1971 TOTAL 93,540 MEAN 256 MAX 2,470 MIN 24 MEAN† 259 CFSM† 1.64 IN† 22.28

† Adjusted for change in contents in North Springfield Lake.

01153500 Williams River at Brockways Mills, Vt.

LOCATION.--Lat 43°12'31", long 72°31'05", Windham County, on left bank 25 ft upstream from highway bridge at Brockways Mills, 4 miles downstream from Hall Brook, 4.6 miles upstream from mouth, and 6 miles northwest of Bellows Falls.

DRAINAGE AREA.--103 sq mi.

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 161 cfs (21.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,540 cfs Apr. 20 (gage height, 6.91 ft); minimum, 6.6 cfs Aug. 22, 23, 25, 26, 27.

Period of record: Maximum discharge, 8,910 cfs June 1, 1952 (gage height, 13.39 ft), from rating curve extended above 3,300 cfs on basis of slope-area measurement at gage height 13.31 ft; minimum not determined, occurred Dec. 11, 1941, during period of ice effect; minimum daily, 3.6 cfs Aug. 27, 1949.

Flood in September 1938 had greatest discharge since at least 1753 (gage height, 22.7 ft, from floodmarks). Flood in November 1927 reached a stage possibly 2 ft higher than that of September 1938 flood because of backwater from mill dam, from information by local residents.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1031: 1943-44(P). WSP 1301: 1941-42(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	36	92	49	36	163	148	779	87	23	32	27
2	25	35	82	50	35	130	202	805	77	23	25	23
3	23	34	72	52	35	118	482	1,280	80	21	27	20
4	53	33	173	50	35	97	539	1,400	77	18	34	19
5	47	33	141	56	35	97	453	956	64	17	27	17
6	33	32	115	80	36	106	432	918	57	17	21	17
7	28	32	69	74	37	110	409	687	53	16	17	20
8	25	31	55	67	37	112	322	600	74	14	15	18
9	23	31	90	64	40	101	313	772	105	14	14	17
10	22	32	100	62	45	93	452	643	65	14	13	15
11	21	50	90	58	44	96	576	511	52	13	13	14
12	22	54	82	56	42	95	879	427	47	13	17	26
13	21	46	78	50	47	90	1,150	515	43	12	14	54
14	23	43	74	47	60	96	1,210	500	40	13	13	46
15	23	55	64	49	100	113	840	353	37	14	12	72
16	91	80	60	46	140	315	669	301	36	14	11	52
17	118	72	66	43	115	356	563	272	33	14	10	41
18	59	60	70	41	106	306	642	234	30	16	9.6	35
19	45	72	66	39	97	280	1,180	206	28	19	9.0	30
20	37	140	64	38	91	250	1,670	182	26	56	8.5	26
21	33	200	58	37	90	242	1,480	172	25	27	8.1	29
22	32	180	56	37	85	190	1,230	210	26	20	7.0	29
23	73	210	62	36	85	166	953	169	24	17	7.3	24
24	125	160	65	36	84	132	855	146	22	15	7.4	22
25	72	130	62	37	80	123	883	138	25	14	6.9	20
26	55	100	60	39	78	119	729	148	103	14	6.8	18
27	51	88	56	39	100	117	770	132	45	14	9.3	18
28	46	84	54	38	213	118	770	122	32	14	396	18
29	42	86	53	37	------	124	1,110	111	27	13	154	18
30	40	96	52	36	------	135	848	101	24	27	60	18
31	38	------	50	36	------	140	------	106	------	27	36	------
TOTAL	1,375	2,335	2,331	1,479	2,028	4,730	22,759	13,796	1,464	563	1,040.9	803
MEAN	44.4	77.8	75.2	47.7	72.4	153	759	445	48.8	18.2	33.6	26.8
MAX	125	210	173	80	213	356	1,670	1,400	105	56	396	72
MIN	21	31	50	36	35	90	148	101	22	12	6.8	14
CFSM	.43	.76	.73	.46	.70	1.49	7.37	4.32	.47	.18	.33	.26
IN.	.50	.84	.84	.53	.73	1.71	8.22	4.98	.53	.20	.38	.29

CAL YR 1970 TOTAL 60,699.8 MEAN 166 MAX 1,730 MIN 7.6 CFSM 1.61 IN 21.92
WTR YR 1971 TOTAL 54,703.9 MEAN 150 MAX 1,670 MIN 6.8 CFSM 1.46 IN 19.76

PEAK DISCHARGE (BASE, 2,600 CFS).--No peak above base.

NOTE.--No gage-height record Oct. 29 to Dec. 2.

01154000 Saxtons River at Saxtons River, Vt.

LOCATION.--Lat 43°08'14", long 72°29'17", Windham County, on right bank 130 ft upstream from highway bridge, 0.8 mile east of Saxtons River, 1.4 miles upstream from Bundy Brook, and 3.9 miles upstream from mouth.

DRAINAGE AREA.--72.2 sq mi.

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 113 cfs (21.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,710 cfs Apr. 20 (gage height, 6.94 ft); minimum, 3.2 cfs Aug. 23, 24-26.

Period of record: Maximum discharge, 5,610 cfs Sept. 12, 1960 (gage height, 11.57 ft); from rating curve extended above 2,000 cfs on basis of slope-area measurements at gage heights 10.51 and 11.37 ft; minimum, 1.9 cfs July 25, 1949; minimum daily, 2.4 cfs Aug. 6, 1955.

Maximum stage since at least 1869, 17.9 ft in September 1938, from floodmarks (discharge not determined).

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow prior to 1962; fluctuation more frequent prior to 1946.

REVISIONS (WATER YEARS).--WSP 1301: 1948-49(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	30	72	38	29	130	114	476	59	11	25	17
2	19	30	65	39	28	105	163	489	52	13	16	14
3	28	28	59	40	27	94	384	797	57	11	15	11
4	49	28	138	40	27	85	404	824	53	9.6	20	10
5	33	27	110	44	28	80	348	561	44	8.5	16	9.1
6	25	27	90	64	29	85	321	489	39	8.3	11	8.0
7	22	25	60	58	29	90	300	409	36	9.3	8.8	8.4
8	20	24	42	54	29	90	236	366	34	6.6	7.4	8.0
9	19	24	70	50	32	82	232	521	38	6.1	6.4	7.4
10	17	25	75	48	36	78	329	449	32	6.0	5.6	6.5
11	16	38	70	45	35	74	449	341	28	6.8	7.0	6.2
12	16	41	64	42	33	71	650	279	26	6.2	8.5	19
13	19	35	60	39	37	72	854	424	24	5.0	6.2	24
14	20	33	58	37	48	67	866	428	23	6.8	5.2	30
15	28	43	50	38	80	80	593	280	21	8.0	5.0	50
16	81	62	46	36	110	190	463	228	21	7.0	4.7	31
17	49	56	52	33	92	230	402	206	19	6.8	4.4	29
18	36	46	54	32	84	155	435	178	17	8.4	4.1	25
19	30	56	52	31	78	131	803	157	16	15	3.8	20
20	27	112	50	29	74	128	1,130	138	15	31	3.7	16
21	24	160	45	29	72	116	981	127	15	16	3.7	25
22	31	115	44	29	69	106	811	136	15	11	3.6	24
23	96	157	50	29	68	103	634	114	14	8.6	3.9	17
24	98	117	52	29	67	96	566	99	12	7.4	3.4	14
25	62	86	49	29	64	92	597	95	14	7.0	3.2	12
26	50	70	47	31	62	89	470	89	34	6.7	3.4	12
27	45	65	44	31	80	88	474	82	21	6.5	5.7	10
28	40	65	42	30	170	89	476	77	15	5.7	292	10
29	37	67	42	29	------	94	669	69	12	6.8	103	10
30	34	75	41	29	------	102	527	66	12	15	41	9.5
31	32	------	39	29	------	107	------	72	------	21	25	------
TOTAL	1,124	1,767	1,832	1,161	1,617	3,199	15,681	9,066	818	302.1	671.7	493.1
MEAN	36.3	58.9	59.1	37.5	57.8	103	523	292	27.3	9.75	21.7	16.4
MAX	98	160	138	64	170	230	1,130	824	59	31	292	50
MIN	16	24	39	29	27	67	114	66	12	5.0	3.2	6.2
CFSM	.50	.82	.82	.52	.80	1.43	7.24	4.04	.38	.14	.30	.23
IN.	.58	.91	.94	.60	.83	1.65	8.08	4.67	.42	.16	.35	.25

CAL YR 1970 TOTAL 43,051.8 MEAN 118 MAX 1,080 MIN 4.8 CFSM 1.63 IN 22.18
WTR YR 1971 TOTAL 37,731.9 MEAN 103 MAX 1,130 MIN 3.2 CFSM 1.43 IN 19.44

PEAK DISCHARGE (BASE, 1,750 CFS).--No peak above base.

01154500 Connecticut River at North Walpole, N.H.

LOCATION.--Lat 43°07'34", long 72°26'14", Cheshire County, on left bank at North Walpole, 100 ft upstream from Saxtons River, 0.7 mile downstream from Vilas Bridge between Bellows Falls, Vt., and North Walpole, N.H., and at mile 172.5. Records include flow of Saxtons River.

DRAINAGE AREA.--5,493 sq mi, includes that of Saxtons River.

PERIOD OF RECORD.--March 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 218.63 ft above mean sea level.

AVERAGE DISCHARGE.--29 years, 8,937 cfs (22.09 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 61,700 cfs May 4 (gage height, 22.88 ft); minimum daily, 174 cfs June 20.
Period of record: Maximum discharge, 97,000 cfs Mar. 27, 1953 (gage height, 30.37 ft); minimum daily, 115 cfs Aug. 31, 1952, Sept. 2, 1957.
Maximum stage since at least 1750, 43.8 ft Mar. 19, 1936, from floodmarks.

REMARKS.--Records excellent except those for winter period, which are good. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 209), and other reservoirs (combined usable capacity, about 24.8 billion cubic feet).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,360	474	7,800	1,900	4,200	6,600	7,100	36,400	8,750	2,420	1,320	4,330
2	4,190	3,570	6,500	2,100	3,000	7,000	7,850	36,400	8,460	3,790	3,000	4,390
3	2,350	2,860	7,300	1,900	4,600	7,200	11,000	41,600	7,530	927	4,130	5,540
4	3,730	2,450	8,300	3,600	3,100	6,800	16,000	56,800	6,010	1,350	4,980	3,350
5	6,080	3,050	11,000	3,500	4,600	8,000	16,000	57,300	4,930	815	8,140	1,250
6	5,910	2,660	3,700	3,010	2,500	4,800	15,500	52,300	3,650	2,360	7,420	189
7	7,270	1,530	6,400	4,190	1,100	4,700	16,200	46,000	5,980	1,950	1,660	3,820
8	6,780	1,140	6,200	5,210	3,900	4,900	14,600	41,800	6,550	2,330	1,070	4,510
9	6,720	2,930	5,000	3,600	3,800	7,300	12,600	36,800	7,820	2,210	4,120	4,100
10	3,260	3,770	5,700	2,000	3,400	7,300	13,300	36,200	6,800	1,220	3,620	3,460
11	1,540	2,900	4,170	3,300	3,400	6,000	16,700	35,500	7,150	840	3,290	1,510
12	3,720	3,700	4,820	3,500	3,100	6,200	21,700	35,400	3,820	1,830	3,920	1,480
13	3,650	4,700	1,720	5,200	2,900	7,000	32,900	35,000	4,130	1,380	1,400	3,450
14	3,230	2,500	5,150	4,300	1,400	4,000	40,100	35,900	4,750	2,030	858	4,750
15	3,800	2,400	4,640	4,500	1,900	5,800	35,700	31,100	4,550	1,990	219	4,170
16	6,400	5,800	4,230	2,600	4,400	8,500	30,500	26,300	3,020	1,900	2,240	6,320
17	6,500	6,000	4,030	900	7,000	12,000	26,300	20,200	2,980	1,100	1,690	4,220
18	5,000	4,900	4,350	4,300	5,800	13,000	23,100	18,800	3,070	1,490	2,800	4,010
19	5,500	4,600	2,610	4,400	5,400	12,500	23,500	15,100	2,650	3,620	1,570	2,670
20	6,500	5,100	3,450	4,300	3,600	12,000	37,800	12,700	174	2,370	1,340	3,550
21	5,200	3,100	4,820	4,600	3,100	12,000	48,100	17,200	4,820	3,320	518	3,690
22	5,600	5,600	4,430	3,200	4,900	11,500	50,400	15,800	3,250	3,010	190	4,090
23	5,400	7,300	4,190	1,500	6,200	10,800	47,400	15,800	2,650	3,310	3,750	4,740
24	5,100	9,400	4,920	1,600	5,600	8,700	41,100	13,300	5,080	931	2,310	4,220
25	3,000	7,800	2,600	3,900	4,500	8,430	36,800	12,800	4,070	196	2,710	1,070
26	5,100	5,500	4,900	2,800	5,400	7,820	33,700	14,400	5,360	3,250	2,140	482
27	5,200	6,100	4,900	4,200	5,200	6,590	32,800	16,900	1,990	3,410	5,890	2,810
28	5,370	3,100	4,800	4,800	3,900	5,220	32,700	14,200	3,230	1,090	6,950	2,020
29	7,190	3,800	4,900	4,100	------	6,160	36,200	12,800	2,180	1,260	12,300	1,870
30	4,770	7,000	5,000	2,500	------	7,460	38,400	13,000	4,470	2,960	11,400	2,150
31	3,400	------	5,200	1,300	------	7,350	------	8,780	------	1,730	6,220	------
TOTAL	152,820	126,734	157,880	102,800	111,900	243,630	816,050	862,580	139,874	62,389	113,265	98,211
MEAN	4,930	4,224	5,093	3,316	3,996	7,859	27,200	27,830	4,662	2,013	3,654	3,274
MAX	7,270	9,400	11,000	5,210	7,000	13,000	50,400	57,300	8,750	3,790	12,300	6,320
MIN	1,540	474	1,720	500	1,100	4,000	7,100	8,780	174	196	190	189
MEAN†	5,037	3,991	4,180	2,608	3,401	6,171	28,490	30,940	4,589	1,937	3,784	2,836
CFSM†	.92	.73	.76	.47	.62	1.12	5.19	5.63	.84	.35	.69	.52
IN.†	1.06	.81	.88	.55	.64	1.30	5.79	6.50	.93	.41	.79	.58

CAL YR 1970 TOTAL 3,219,232 MEAN 8,820 MAX 56,200 MIN 209 MEAN† 8,717 CFSM† 1.59 IN† 21.55
WTR YR 1971 TOTAL 2,988,133 MEAN 8,187 MAX 57,300 MIN 174 MEAN† 8,183 CFSM† 1.49 IN† 20.23

PEAK DISCHARGE (BASE, 44,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	0800	20.41	51,200				
5-4	2115	22.88	61,700				

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to North Springfield Lake on Black River listed on page 209.

NOTE.--No gage-height record Nov. 11 to Dec. 10.

01155000 Cold River at Drewsville, N.H.

LOCATION.--Lat 43°07'54", long 72°23'23", Cheshire County, on left bank 50 ft upstream from bridge on State Highway 123 at Drewsville, 1.0 mile upstream from Great Brook, 2.7 miles east of Bellows Falls, Vt., and 3.4 miles upstream from mouth.

DRAINAGE AREA.--82.7 sq mi.

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 112 cfs (18.39 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,230 cfs Apr. 13 (gage height, 6.02 ft); minimum, 7.9 cfs July 14-17, 28, 29, Aug. 24, 25.
Period of record: Maximum discharge, 3,160 cfs Nov. 26, 1950 (gage height, 10.29 ft), from rating curve extended above 3,400 cfs; minimum, 1.3 cfs Sept. 23, 1940.

REMARKS.--Records excellent except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by sawmill above station; fluctuation more frequent prior to 1945.

REVISIONS (WATER YEARS).--WSP 1431: 1952(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	30	56	37	31	150	130	371	51	17	74	15
2	29	29	53	39	29	132	191	333	45	17	36	13
3	32	28	50	40	28	116	485	438	47	16	36	11
4	106	28	136	39	27	108	500	790	45	14	95	11
5	65	30	136	42	28	104	440	578	45	12	47	10
6	45	32	106	49	30	98	397	425	39	12	27	10
7	36	30	72	47	29	91	364	336	33	11	19	9.6
8	31	28	45	43	29	88	299	275	54	11	17	9.6
9	28	28	62	42	33	84	270	290	135	10	15	9.3
10	24	25	71	40	34	83	377	310	69	9.8	13	9.1
11	23	26	57	40	34	76	536	245	47	9.1	13	9.1
12	23	30	61	40	33	74	749	204	41	8.6	25	14
13	24	28	57	35	33	72	933	365	35	8.4	17	20
14	25	27	57	33	53	71	962	480	30	8.2	13	16
15	39	35	44	36	84	77	677	333	31	7.9	11	17
16	108	49	40	34	100	173	519	265	29	7.9	10	16
17	77	46	52	33	87	226	422	232	23	8.2	9.8	17
18	57	38	58	31	79	194	415	196	20	10	9.6	16
19	46	42	55	33	78	168	539	165	19	15	9.3	14
20	40	63	55	34	73	160	805	143	17	33	9.1	13
21	36	99	45	31	69	146	825	131	17	17	8.8	17
22	39	77	36	29	66	130	705	131	17	13	8.8	17
23	55	94	45	29	64	122	555	126	17	11	8.6	13
24	64	83	45	29	64	109	459	97	17	9.8	8.2	12
25	53	64	47	29	63	110	466	84	17	9.1	8.2	11
26	46	54	49	31	62	102	412	83	36	8.8	8.2	10
27	43	51	46	33	85	99	374	77	25	8.8	9.1	10
28	39	51	44	33	140	99	347	74	18	8.4	60	9.8
29	36	53	45	35	------	105	459	51	17	8.4	73	9.6
30	33	59	40	34	------	114	445	59	17	25	34	10
31	31	------	38	33	------	120	------	61	------	42	20	------
TOTAL	1,368	1,357	1,803	1,113	1,565	3,601	15,057	7,748	1,053	407.4	752.7	379.1
MEAN	44.1	45.2	58.2	35.9	55.9	116	502	250	35.1	13.1	24.3	12.6
MAX	108	99	136	49	140	226	962	790	135	42	95	20
MIN	23	25	36	29	27	71	130	51	17	7.9	8.2	9.1
CFSM	.53	.55	.70	.43	.68	1.40	6.07	3.02	.42	.16	.29	.15
IN.	.62	.61	.81	.50	.70	1.62	6.77	3.49	.47	.18	.34	.17

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CAL YR 1970  TOTAL 42,636.9  MEAN 117    MAX 1,000  MIN 6.7  CFSM 1.41  IN 19.18
WTR YR 1971  TOTAL 36,204.2  MEAN  99.2  MAX   962  MIN 7.9  CFSM 1.20  IN 16.29
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PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	2215	6.02	1,230				

01155200 Sacketts Brook near Putney, Vt.

LOCATION.--Lat 42°59'57", long 72°31'59", Windham County, on left bank 50 ft upstream from highway bridge on Saxtons River Road and 1.8 miles north of Putney.

DRAINAGE AREA.--10.0 sq mi.

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 430 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 14.1 cfs (19.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 270 cfs Aug. 28 (gage height, 4.60 ft), from rating curve extended above 88 cfs; minimum, 1.4 cfs Aug. 22-27.

Period of record: Maximum discharge, 946 cfs July 29, 1969 (gage height, 6.89 ft), from rating curve extended above 88 cfs; minimum, 0.63 cfs Sept. 20, 21, 1964.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.7	9.4	5.2	4.5	18	21	40	12	3.5	8.2	3.6
2	3.0	4.7	8.1	5.4	4.4	16	29	39	11	4.1	5.5	3.0
3	7.0	4.3	16	5.4	4.2	14	69	58	12	3.2	7.4	3.0
4	7.4	4.3	18	5.8	4.2	12	61	64	10	3.0	7.8	2.7
5	4.3	4.3	14	9.0	5.0	12	58	43	8.9	2.7	4.7	2.7
6	4.0	4.3	10	8.5	5.2	12	53	38	8.2	2.5	3.3	3.0
7	3.6	4.3	7.3	9.0	4.5	13	51	33	8.1	2.5	3.0	2.7
8	3.3	4.0	6.0	7.4	4.5	12	42	33	7.4	2.2	2.7	2.5
9	3.0	3.6	11	6.8	5.8	11	45	59	7.0	2.2	2.5	2.7
10	3.0	4.0	10	6.6	5.4	11	68	46	6.5	2.2	2.7	2.5
11	3.0	5.5	9.5	6.6	5.2	10	97	37	6.3	2.0	3.3	2.5
12	3.0	5.5	9.2	6.2	5.0	9.7	107	33	6.2	2.0	3.0	7.0
13	3.6	4.7	8.2	5.9	6.0	9.7	126	70	6.0	1.8	2.2	4.7
14	4.0	4.7	8.0	5.6	10	9.2	116	52	6.1	2.2	2.2	7.6
15	5.9	8.2	7.0	6.0	16	11	87	40	5.7	2.2	2.0	7.4
16	11	8.7	6.4	5.7	14	26	70	37	5.5	2.0	2.0	5.3
17	5.5	6.6	7.4	5.4	12	25	68	36	5.1	2.2	1.8	7.3
18	4.7	5.9	7.2	5.2	9.7	19	69	31	5.0	2.5	1.8	5.9
19	4.7	10	7.0	5.0	9.7	19	104	28	4.6	5.9	1.6	4.6
20	4.0	22	6.2	4.9	9.2	21	114	26	4.3	5.5	1.6	4.3
21	4.0	18	6.0	4.8	9.2	18	97	26	4.3	3.0	1.6	6.4
22	5.9	17	6.6	4.8	9.2	17	81	26	4.6	2.5	1.8	4.8
23	9.7	22	7.2	4.8	9.7	17	66	21	3.9	2.2	1.4	4.3
24	7.8	17	7.0	4.8	9.7	16	59	19	3.6	2.0	1.4	3.8
25	6.3	12	6.7	4.8	9.7	15	55	18	5.5	2.0	1.4	3.5
26	5.9	9.3	6.4	4.8	9.2	14	48	17	8.3	2.0	1.4	3.0
27	5.1	8.5	6.0	5.2	22	14	44	16	4.5	2.0	3.0	3.0
28	5.1	8.6	5.8	5.0	21	14	42	15	3.6	2.0	54	3.0
29	5.1	8.9	5.8	4.8	------	15	64	14	3.3	6.6	13	3.0
30	5.1	9.4	5.6	4.6	------	16	45	14	3.3	7.0	5.9	3.0
31	5.1	------	5.4	4.5	------	18	------	14	------	11	4.0	------
TOTAL	156.7	255.0	254.4	177.5	244.2	464.6	2,056	1,043	190.8	98.7	158.2	122.8
MEAN	5.05	8.50	8.21	5.73	8.72	15.0	68.5	33.6	6.36	3.18	5.10	4.09
MAX	11	22	18	9.0	22	26	126	70	12	11	54	7.6
MIN	3.0	3.6	5.4	4.5	4.2	9.2	21	14	3.3	1.8	1.4	2.5
CFSM	.51	.85	.82	.57	.87	1.50	6.85	3.36	.64	.32	.51	.41
IN.	.58	.95	.95	.66	.91	1.73	7.65	3.88	.71	.37	.59	.46

CAL YR 1970 TOTAL 6,045.7 MEAN 16.6 MAX 176 MIN 1.3 CFSM 1.66 IN 22.49
WTR YR 1971 TOTAL 5,221.9 MEAN 14.3 MAX 126 MIN 1.4 CFSM 1.43 IN 19.43

PEAK DISCHARGE (BASE, 210 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-12	1715	4.41	230				
8-28	1045	4.60	270				

01155300 Flood Brook near Londonderry, Vt.

LOCATION.--Lat 43°14'11", long 72°51'23", Windham County, on left bank 20 ft downstream from bridge on State Highway 11, 0.9 mile upstream from Burnt Meadow Brook, and 2.5 miles west of Londonderry.

DRAINAGE AREA.--9.25 sq mi.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,300 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 19.3 cfs (28.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 254 cfs May 5 (gage height, 4.62 ft), from rating curve extended above 220 cfs; maximum gage height, 6.33 ft Mar. 16 (backwater from ice); minimum discharge, 0.79 cfs July 13, Aug. 26.

Period of record: Maximum discharge, 782 cfs Aug. 23, 1966 (gage height, 6.33 ft), from rating curve extended above 140 cfs; maximum gage height, 7.44 ft, from peak-stage indicator, Mar. 18, 1968 (ice jam); minimum discharge, 0.19 cfs Aug. 10-12, 1964.

REMARKS.--Records good except those for winter period or period of no gage-height record, which are fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	19	10	6.0	16	13	91	15	1.5	4.1	4.1
2	11	10	18	10	5.8	13	19	109	13	1.6	4.6	2.8
3	35	9.3	16	9.3	5.8	11	47	173	15	1.3	7.3	2.3
4	34	8.9	35	9.6	5.5	10	38	170	13	1.2	6.8	2.0
5	20	8.9	27	17	5.5	10	30	181	11	1.4	3.1	1.8
6	15	7.7	22	26	6.0	10	27	157	9.4	1.2	1.8	1.7
7	12	7.2	18	19	5.8	10	25	163	9.0	1.1	1.5	2.3
8	10	7.0	15	13	6.3	9.8	22	138	9.4	1.0	1.4	2.0
9	8.6	6.3	17	13	6.5	9.4	23	159	10	.94	1.2	1.8
10	7.7	7.2	18	12	6.0	9.2	29	157	8.4	.91	1.1	1.5
11	7.5	16	16	13	5.8	9.0	34	148	7.1	.88	1.8	1.4
12	7.2	13	15	11	6.0	8.7	55	119	6.4	.85	1.7	8.4
13	7.2	11	14	9.6	8.0	8.6	83	132	5.8	.82	1.3	8.1
14	8.0	9.6	14	9.9	12	8.6	99	81	6.0	1.1	1.2	15
15	10	14	13	9.9	18	12	66	54	5.4	1.1	1.1	24
16	31	21	11	8.9	14	34	52	50	4.8	.88	1.1	12
17	17	16	12	8.4	11	28	45	42	4.2	1.0	1.0	8.1
18	15	13	13	8.0	9.6	22	50	35	3.9	1.2	.97	6.6
19	17	17	12	7.6	9.0	19	92	31	3.6	3.9	.97	5.2
20	13	31	15	7.2	8.8	18	155	26	3.5	7.5	.91	4.1
21	12	41	14	7.0	8.6	16	142	38	3.3	2.4	.94	6.6
22	32	33	13	7.4	8.4	15	117	50	3.6	1.6	.91	5.0
23	83	40	13	7.2	8.2	14	85	32	3.1	1.3	1.0	3.9
24	57	28	12	7.0	8.0	14	76	23	2.7	2.7	.94	3.3
25	27	21	12	6.7	7.8	13	78	21	3.5	2.1	.82	2.7
26	18	17	12	6.4	7.8	13	65	20	6.7	1.6	.82	2.5
27	16	16	11	7.2	15	12	85	18	3.7	1.2	1.2	2.4
28	17	16	11	7.0	21	12	87	17	2.7	1.0	65	2.3
29	15	18	11	6.7	------	12	109	16	2.1	1.0	46	2.7
30	13	19	11	6.4	------	13	87	16	1.8	1.7	13	2.4
31	12	------	10	5.2	------	12	------	21	------	3.0	6.6	------
TOTAL	602.2	495.1	470	307.6	246.2	422.3	1,935	2,488	197.1	50.98	182.18	149.0
MEAN	19.4	16.5	15.2	9.92	8.79	13.6	64.5	80.3	6.57	1.64	5.88	4.97
MAX	83	41	35	26	21	34	155	181	15	7.5	65	24
MIN	7.2	6.3	10	6.2	5.5	8.6	13	16	1.8	.82	.82	1.4
CFSM	2.10	1.78	1.64	1.07	.95	1.47	6.97	8.68	.71	.18	.64	.54
IN.	2.42	1.99	1.89	1.24	.99	1.70	7.78	10.01	.79	.21	.73	.60

CAL YR 1970 TOTAL 7,852.59 MEAN 21.5 MAX 335 MIN .42 CFSM 2.32 IN 31.58
WTR YR 1971 TOTAL 7,545.66 MEAN 20.7 MAX 181 MIN .82 CFSM 2.24 IN 30.35

PEAK DISCHARGE (BASE, 300 CFS, REVISED).--No peak above base.

NOTE.--No gage-height record May 26 to June 30.

01155500 West River at Jamaica, Vt.

LOCATION.--Lat 43°06'32", long 72°46'33", Windham County, on left bank 0.2 mile upstream from highway bridge at Jamaica, 0.4 mile upstream from Ball Mountain Brook, 2.8 miles downstream from Ball Mountain Dam, and at mile 26.2.

DRAINAGE AREA.--179 sq mi.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (from topographic map).

AVERAGE DISCHARGE.--25 years, 339 cfs (25.72 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,650 cfs Apr. 21 (gage height, 8.34 ft); maximum gage height, 8.49 ft Mar. 17 (backwater from ice); minimum discharge, 2.5 cfs June 24; minimum daily, 20 cfs June 23, 24.

Period of record: Maximum discharge, 29,500 cfs Dec. 31, 1948 (gage height, 14.87 ft), from rating curve extended above 9,800 cfs, verified by slope-area measurement of peak flow; minimum, 0.94 cfs Sept. 23-25, 1968; minimum daily, 0.94 cfs Sept. 23, 24, 1968. Maximum discharge since construction of Ball Mountain Dam in 1961, 5,020 cfs Apr. 24, 1962 (gage height, 8.75 ft); maximum gage height, 9.46 ft Feb. 4, 1970 (ice jam).

REMARKS.--Records excellent except those for winter period, which are poor. Flow regulated by Ball Mountain Lake since 1961 (see p. 209).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	121	284	125	86	400	225	1,010	183	41	30	31
2	202	114	282	115	80	300	240	1,160	159	41	30	32
3	158	106	265	110	76	230	489	2,430	128	41	31	32
4	183	101	320	110	76	240	848	3,120	75	40	31	32
5	221	99	487	130	78	210	637	3,220	79	40	31	32
6	219	94	499	150	80	190	565	2,710	75	40	30	32
7	216	89	388	210	88	200	534	2,200	79	40	30	32
8	213	84	205	220	90	200	436	2,000	75	39	30	32
9	209	80	170	180	88	195	375	2,350	106	39	30	32
10	201	80	210	160	88	180	473	2,250	132	39	30	32
11	175	129	215	160	85	175	536	1,900	97	39	31	32
12	367	170	190	150	84	175	882	2,080	82	32	30	36
13	551	139	160	110	90	170	1,700	1,950	82	27	32	160
14	298	121	165	110	130	160	2,050	1,750	65	28	34	187
15	82	138	165	120	170	165	1,320	1,030	53	28	34	125
16	388	246	150	110	240	400	813	767	50	28	34	125
17	377	238	130	120	270	600	865	855	41	28	34	125
18	217	178	135	110	220	550	844	707	41	28	33	124
19	183	195	140	90	190	400	561	480	41	29	33	87
20	153	506	170	95	190	350	815	483	41	29	33	63
21	132	729	200	100	170	330	2,760	464	41	29	33	64
22	154	545	195	100	150	300	3,240	451	34	29	33	64
23	697	794	180	94	155	270	2,290	499	20	29	33	64
24	500	584	165	70	160	260	1,280	536	20	29	33	63
25	312	286	160	96	150	250	1,300	519	29	29	32	63
26	237	208	135	92	145	250	1,360	506	86	29	32	63
27	215	247	145	92	150	245	1,350	474	103	29	33	63
28	195	259	145	96	250	240	1,700	375	64	29	431	45
29	164	261	140	56	------	236	2,180	298	53	30	1,070	33
30	144	270	135	54	------	210	1,620	240	46	29	349	32
31	130	------	130	90	------	231	------	209	------	30	85	------
TOTAL	7,698	7,211	6,464	3,705	3,827	8,312	34,288	39,023	2,192	1,017	2,795	1,937
MEAN	248	240	209	120	137	268	1,143	1,259	73.1	32.8	90.2	64.6
MAX	697	794	499	220	270	600	3,240	3,220	183	41	1,070	187
MIN	82	80	130	70	76	160	225	209	20	27	30	31
MEAN†	201	246	208	120	140	266	1,157	1,260	79.4	30.4	93.4	68.8
CFSM†	1.12	1.37	1.16	.67	.78	1.49	6.46	7.04	.44	.17	.52	.38
IN.†	1.30	1.53	1.34	.77	.81	1.71	7.21	8.12	.50	.20	.60	.43

CAL YR 1970 TOTAL 125,372 MEAN 343 MAX 2,940 MIN 30 MEAN† 343 CFSM† 1.92 IN† 26.06
WTR YR 1971 TOTAL 118,469 MEAN 325 MAX 3,240 MIN 20 MEAN† 323 CFSM† 1.80 IN† 24.52

† Adjusted for change in contents in Ball Mountain Lake.

01156000 West River at Newfane, Vt.

LOCATION.--Lat 42°59'42", long 72°38'17", Windham County, on right bank 600 ft downstream from highway bridge, 1 mile northeast of Newfane, and at mile 12.7.

DRAINAGE AREA.--308 sq mi.

PERIOD OF RECORD.--September 1919 to September 1923, October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 384.21 ft above mean sea level. Prior to June 27, 1931, nonrecording gage at site 600 ft upstream at same datum.

AVERAGE DISCHARGE.--47 years, 601 cfs (26.50 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,010 cfs May 6 (gage height, 8.53 ft); minimum, 14 cfs June 25; minimum daily, 17 cfs June 25.

Period of record: Maximum discharge, 52,300 cfs Sept. 21, 1938 (gage height, 22.81 ft, from floodmarks), from rating curve extended above 20,000 cfs on basis of contracted-opening measurement at gage height 19.3 ft and slope-area measurements at gage heights 19.46 and 22.81 ft; minimum, 7.6 cfs Aug. 24, 25, 26, 1962, minimum daily, 8.2 cfs Aug. 25, 1962. Maximum discharge since construction of Ball Mountain and Townshend Lakes in 1961, 9,410 cfs Apr. 10, 1969 (gage height, 9.77 ft).

Maximum discharge since at least 1869, that of Sept. 21, 1938. Flood of Nov. 3, 1927, reached a discharge of 45,000 cfs (gage height, 23.0 ft, from floodmarks, at nonrecording-gage site), from rating curve extended above 20,000 cfs on basis of computation of peak flow over dam at West Dummerston, about 5 miles downstream, adjusted for flow from intervening area.

REMARKS.--Records excellent except those for winter period, which are poor. Flow regulated since 1961 by Ball Mountain Lake and Townshend Lake 6.8 miles upstream (see p. 209).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1231: 1922-23, 1929-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	204	433	185	130	540	410	2,130	308	70	73	104
2	239	183	408	180	130	640	413	2,320	274	82	67	76
3	239	171	378	180	130	520	864	3,840	268	81	60	68
4	281	160	588	180	130	420	1,390	5,350	218	68	64	67
5	291	156	812	200	135	380	1,500	5,590	192	62	64	64
6	271	152	746	230	140	350	1,140	4,910	178	59	55	61
7	226	145	620	300	150	350	1,080	3,620	165	58	51	61
8	248	138	402	350	160	360	889	3,340	156	55	48	61
9	248	131	312	270	170	350	738	4,020	149	54	43	60
10	145	120	356	230	170	330	931	4,390	175	54	43	30
11	148	101	384	210	165	320	1,160	3,100	172	52	45	46
12	171	88	307	190	160	310	1,640	3,290	140	51	49	68
13	545	120	286	180	170	300	2,520	3,300	131	45	45	119
14	458	183	258	175	240	290	4,110	3,220	128	43	44	290
15	179	196	262	170	350	280	3,520	2,050	107	46	45	253
16	378	302	240	165	500	500	1,740	1,270	97	45	43	226
17	504	350	260	160	550	1,000	1,650	1,440	90	44	42	203
18	356	281	280	155	450	950	1,680	1,260	80	45	43	188
19	262	258	260	150	380	800	1,780	910	78	47	44	171
20	230	628	270	145	340	620	2,860	850	76	72	43	117
21	196	850	240	145	320	560	4,540	688	75	64	43	122
22	200	1,080	240	145	300	530	5,610	860	76	52	43	134
23	727	1,090	260	145	290	500	4,400	811	73	47	43	117
24	822	1,110	240	145	285	470	2,790	790	26	46	42	107
25	471	596	235	130	280	440	2,680	754	17	44	41	100
26	421	333	230	135	230	420	2,470	724	59	42	42	96
27	566	361	210	140	230	410	2,570	686	154	42	48	94
28	333	373	210	135	350	400	2,840	580	116	41	551	93
29	253	378	200	135	------	397	3,650	492	85	43	1,680	70
30	226	396	195	130	------	375	3,070	347	76	61	543	62
31	204	------	190	130	------	396	------	352	------	70	231	------
TOTAL	10,105	10,634	10,312	5,520	7,035	14,508	66,635	67,284	3,939	1,685	4,318	3,328
MEAN	326	354	333	178	251	468	2,221	2,170	131	54.4	139	111
MAX	822	1,110	812	350	550	1,000	5,610	5,590	308	82	1,680	290
MIN	145	88	190	130	130	280	410	347	17	41	41	30
MEAN†	265	376	331	205	226	466	2,236	2,170	137	52.0	143	114
CFSM†	.86	1.22	1.07	.67	.73	1.51	7.26	7.05	.44	.17	.46	.37
IN.†	.99	1.36	1.24	.77	.76	1.75	8.10	8.13	.50	.19	.54	.41

CAL YR 1970 TOTAL 218,781 MEAN 555 MAX 5,470 MIN 41 MEAN† 599 CFSM† 1.94 IN† 26.42
WTR YR 1971 TOTAL 205,303 MEAN 562 MAX 5,610 MIN 17 MEAN† 561 CFSM† 1.82 IN† 24.74

† Adjusted for change in contents in Ball Mountain and Townshend Lakes.
NOTE.--No gage-height record Feb. 2 to Mar. 1.

01156500 Connecticut River at Vernon, Vt.

LOCATION.--Lat 42°46'10", long 72°30'50", Windham County, on right bank just downstream from Vernon Dam at Vernon, 2 miles upstream from Ashuelot River, and at mile 141.9.

DRAINAGE AREA.--6,266 sq mi.

PERIOD OF RECORD.--February to April 1936 (in WSP 798), September and October 1938 (in WSP 867), October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level; prior to Jan. 20, 1948, datum was 94.13 ft higher.

AVERAGE DISCHARGE.--27 years (1944-71), 10,130 cfs (21.95 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 65,500 cfs May 5 (gage height, 199.63 ft); minimum daily, 230 cfs June 20, July 11, 25, Aug. 22.
Period of record: Maximum discharge, 176,000 cfs Mar. 19, 20, 1936 (gage height, 128.8 ft, datum then in use), from rating curve extended above 86,000 cfs; minimum daily, 99 cfs Oct. 8, 1944.
Flood of Mar. 19, 20, 1936, is greatest since at least 1750, from historical data and information by local residents.

REMARKS.--Records good except those below 1,000 cfs, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 209), and other reservoirs (combined usable capacity, about 29 billion cubic feet).

REVISIONS.--WSP 1031: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,110	662	7,460	2,300	4,800	8,000	7,780	39,100	8,450	4,860	654	3,910
2	6,280	5,180	6,850	2,700	4,100	8,000	10,100	39,000	9,410	4,070	3,180	4,880
3	2,930	3,620	7,540	1,600	3,300	7,800	12,800	42,900	8,490	930	4,020	6,480
4	2,720	2,770	8,940	3,500	3,300	8,400	17,500	57,100	6,630	580	7,050	4,130
5	7,440	3,540	11,700	3,300	6,500	8,300	20,100	63,900	4,940	260	7,450	791
6	6,540	3,380	5,430	2,700	1,900	6,400	17,900	59,200	3,410	2,320	7,410	255
7	5,700	2,060	7,240	4,500	750	5,600	18,000	52,400	6,970	1,720	2,200	4,380
8	7,390	1,020	6,310	4,200	5,000	5,600	17,100	46,500	6,960	2,210	1,220	3,930
9	7,010	2,340	6,280	4,500	5,000	7,400	14,800	42,500	7,090	2,390	5,430	5,960
10	1,950	2,910	5,280	3,900	4,600	7,600	16,200	41,600	7,860	929	3,350	2,200
11	1,700	3,110	5,540	3,800	3,600	7,800	18,800	38,900	6,790	230	3,630	1,010
12	4,420	4,890	4,490	3,200	3,500	6,600	24,900	39,100	4,260	2,200	3,420	2,080
13	4,710	5,410	1,820	4,700	2,800	7,200	31,900	39,000	4,630	1,260	1,730	3,530
14	3,330	2,500	6,550	5,400	2,600	5,000	45,500	41,400	5,430	2,380	1,080	4,530
15	5,290	2,740	5,490	4,900	1,800	7,000	45,500	35,600	3,790	2,280	240	4,060
16	5,490	6,770	4,600	2,500	4,600	8,600	35,400	29,700	3,490	1,930	2,100	6,220
17	6,770	6,240	4,100	700	7,000	13,000	30,300	25,200	3,120	744	2,230	4,920
18	4,630	5,690	4,900	5,100	7,700	13,000	27,200	21,300	3,430	1,430	2,740	3,470
19	6,540	6,050	2,600	4,900	5,500	14,000	26,400	20,800	2,540	4,760	1,960	3,460
20	6,910	5,940	3,000	4,800	4,500	13,500	38,800	13,600	230	2,970	2,100	4,090
21	6,170	3,680	6,900	4,600	4,000	13,000	49,900	15,600	5,280	2,940	432	4,160
22	6,140	6,510	4,800	4,300	6,000	12,500	56,700	15,600	2,290	2,750	230	3,730
23	5,680	8,330	5,400	1,800	6,800	12,000	54,800	16,900	2,680	3,910	3,480	4,510
24	6,230	10,600	4,100	1,000	5,600	10,000	47,900	14,000	4,350	1,120	2,550	4,270
25	3,490	8,490	2,700	4,000	5,600	9,000	41,700	14,400	3,820	230	2,830	1,040
26	6,800	7,260	5,200	3,200	5,200	8,600	37,600	14,900	5,740	4,150	2,440	240
27	6,840	7,470	5,800	5,500	6,000	6,700	36,000	17,200	2,800	3,630	8,360	3,390
28	6,940	3,300	5,500	4,700	5,600	4,860	36,000	15,300	3,300	838	10,800	1,720
29	6,570	3,270	5,300	3,000	------	8,900	39,100	14,000	2,160	1,520	11,800	2,230
30	4,230	7,900	5,200	2,500	------	8,400	42,900	13,900	4,370	2,980	13,200	2,440
31	1,110	------	4,800	2,100	------	8,570	------	11,500	------	2,050	7,020	------
TOTAL	164,060	143,632	171,820	109,900	127,650	271,330	919,580	952,900	144,710	66,571	126,336	102,016
MEAN	5,292	4,788	5,543	3,545	4,559	8,753	30,650	30,740	4,824	2,147	4,075	3,401
MAX	7,440	10,600	11,700	5,500	7,700	14,000	56,700	63,900	9,410	4,860	13,200	6,480
MIN	1,110	662	1,820	700	750	4,860	7,780	11,500	230	230	230	240
MEAN†	5,339	4,576	4,628	2,864	3,938	7,062	31,950	33,850	4,756	2,069	4,209	2,967
CFSM†	.85	.73	.74	.46	.63	1.13	5.10	5.40	.76	.33	.67	.47
IN.†	.98	.82	.85	.53	.65	1.30	5.69	6.23	.85	.38	.77	.53

CAL YR 1970 TOTAL 3,564,752 MEAN 9,766 MAX 62,000 MIN 230 MEAN† 9,663 CFSM† 1.54 IN† 20.94
WTR YR 1971 TOTAL 3,300,505 MEAN 9,042 MAX 63,900 MIN 230 MEAN† 9,037 CFSM† 1.44 IN† 19.58

PEAK DISCHARGE (BASE, 50,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	1330	197.53	57,100				
5-5	0415	199.63	65,500				

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to lakes in West River basin listed on page 209.

01157000 Ashuelot River near Gilsum, N.H.

LOCATION.--Lat 43°02'21", long 72°16'14", Cheshire County, on right bank 50 ft downstream from White Brook, 60 ft upstream from stone-arch bridge just off Keene-Newport road, 0.7 mile downstream from Gilsum, and at mile 43.4.

DRAINAGE AREA.--71.1 sq mi.

PERIOD OF RECORD.--August 1922 to current year.

GAGE.--Water-stage recorder. Concrete control since Oct. 13, 1942. Datum of gage is 772.86 ft above mean sea level (levels by Corps of Engineers); prior to Oct. 1, 1964, datum was 1.00 ft higher.

AVERAGE DISCHARGE.--49 years, 122 cfs (23.30 inches per year).

EXTREMES.--Current year: Maximum discharge, 959 cfs Apr. 14 (gage height, 6.31 ft); minimum, 3.2 cfs July 28, 29.

Period of record: Maximum discharge, 5,220 cfs Sept. 21, 1938 (gage height, 12.24 ft in gage well, present datum), from rating curve extended above 2,000 cfs on basis of float measurements at gage heights 11.66 and 11.72 ft and slope-area measurement at gage height 12.24 ft (all at present datum); maximum gage height, 13.80 ft, present datum, Mar. 19, 1936; minimum discharge, about 1 cfs Oct. 6, 1922, July 10, 1923, Nov. 14, 1952.

Maximum discharge since at least 1859, that of Sept. 21, 1938.

REMARKS.--Records good except those for winter period, which are fair. Some regulation by reservoir above station. Prior to 1938, diurnal fluctuation caused by powerplant above station.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 781: 1934(M). WSP 1231: 1923-27(M), 1928, 1929-30(M), 1931, 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	41	79	44	33	140	79	542	49	11	12	33
2	17	39	75	43	32	120	102	467	41	13	19	26
3	19	36	71	42	31	105	333	506	42	13	20	22
4	43	36	128	41	30	100	473	808	43	10	35	18
5	41	37	158	43	30	95	396	906	39	9.4	45	15
6	29	41	140	47	31	92	318	698	36	8.9	45	13
7	23	36	109	46	32	87	328	545	32	8.6	38	12
8	19	35	86	42	32	84	341	422	29	8.0	30	11
9	17	32	87	39	34	82	286	357	48	6.9	24	10
10	15	30	150	39	36	80	333	354	62	5.9	20	8.9
11	14	33	150	39	35	77	497	321	56	5.1	18	8.0
12	13	40	140	38	34	74	662	270	45	4.4	19	11
13	13	39	130	37	35	74	826	306	39	3.7	15	12
14	13	36	120	36	50	71	924	533	30	4.5	13	12
15	18	43	110	35	80	73	805	443	25	4.1	11	13
16	76	58	110	34	90	136	638	318	22	3.8	11	13
17	60	63	105	34	80	203	533	272	20	3.5	9.4	14
18	42	59	95	33	76	180	482	221	17	4.0	8.3	14
19	33	60	85	33	74	146	518	176	16	6.8	7.2	13
20	27	73	75	33	70	133	770	137	14	9.0	6.9	12
21	24	104	66	33	66	124	896	112	15	5.5	6.9	13
22	25	121	62	32	64	116	882	112	17	4.8	6.5	13
23	34	170	59	32	62	110	742	108	14	4.4	5.8	12
24	54	185	57	31	61	108	602	95	12	3.9	5.0	11
25	52	120	55	31	60	100	566	87	13	3.8	4.6	10
26	45	100	52	32	60	98	551	81	23	3.8	3.9	9.2
27	45	91	50	35	90	94	509	75	17	3.7	4.2	8.9
28	48	86	48	37	130	93	458	70	14	3.5	21	8.9
29	49	84	47	36	------	94	518	63	12	4.6	42	8.6
30	47	81	46	35	------	100	578	58	11	14	35	8.5
31	43	------	45	34	------	90	------	56	------	9.6	35	------
TOTAL	1,021	2,009	2,790	1,146	1,538	3,279	15,946	9,519	853	205.2	576.7	394.0
MEAN	32.9	67.0	90.0	37.0	54.9	106	532	307	28.4	6.62	18.6	13.1
MAX	76	185	158	47	130	203	924	906	62	14	45	33
MIN	13	30	45	31	30	71	79	56	11	3.5	3.9	8.0
CFSM	.46	.94	1.27	.52	.77	1.49	7.48	4.32	.40	.09	.26	.18
IN.	.53	1.05	1.46	.60	.80	1.72	8.34	4.98	.45	.11	.30	.21

CAL YR 1970 TOTAL 46,202.6 MEAN 127 MAX 1,060 MIN 2.2 CFSM 1.79 IN 24.17
WTR YR 1971 TOTAL 39,276.9 MEAN 108 MAX 924 MIN 3.5 CFSM 1.52 IN 20.55

PEAK DISCHARGE (BASE, 1,000 CFS).--No peak above base.

NOTE.--No gage-height record Jan. 19 to Mar. 11.

01158000 Ashuelot River below Surry Mountain Dam, near Keene, N.H.

LOCATION.--Lat 42°59'40", long 72°18'40", Cheshire County, on right bank 600 ft downstream from Surry Mountain Dam, 2.5 miles upstream from Sturtevant Brook, 4.5 miles north of Keene, and at mile 34.0.

DRAINAGE AREA.--101 sq mi.

PERIOD OF RECORD.-- September 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 480.00 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--26 years, 165 cfs (22.19 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,050 cfs Apr. 15 (gage height, 8.83 ft); minimum daily, 4.1 cfs July 18.
Period of record: Maximum discharge, 1,320 cfs Oct. 28, 1959 (gage height, 9.60 ft); minimum daily, 0.4 cfs Sept. 17, 1964.

REMARKS.--Records excellent. Flow regulated by Surry Mountain Lake (see p. 209).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	56	118	81	46	167	149	571	80	17	21	41
2	29	52	112	81	46	182	160	517	70	18	21	36
3	27	50	105	80	46	182	290	494	67	17	26	31
4	41	48	136	63	45	182	519	654	67	15	41	26
5	52	49	192	53	45	180	568	787	63	14	49	22
6	52	51	201	54	45	178	517	793	57	12	52	19
7	44	50	176	54	45	176	473	678	52	12	50	17
8	36	48	117	55	45	174	457	590	48	10	44	15
9	31	45	100	61	45	144	418	527	49	9.2	36	13
10	26	43	102	61	45	130	421	450	61	7.8	30	11
11	23	44	139	61	45	130	531	403	68	6.1	27	9.3
12	21	48	197	61	45	115	749	356	65	5.5	28	13
13	21	52	216	61	45	107	914	339	58	4.8	24	14
14	20	51	193	61	45	107	1,010	476	50	4.9	21	15
15	23	53	157	61	54	151	1,040	509	43	4.8	17	16
16	59	66	147	60	77	232	1,020	443	37	4.6	13	14
17	87	78	126	60	87	264	887	386	31	4.3	11	15
18	78	80	127	60	87	265	648	331	28	4.1	11	14
19	65	82	128	60	87	244	580	281	25	4.9	9.7	13
20	53	94	128	60	87	227	756	241	22	9.5	9.8	12
21	45	120	129	60	87	212	913	207	23	10	9.0	13
22	42	151	128	59	87	191	963	186	28	8.6	8.3	13
23	47	176	127	50	87	179	920	175	25	7.2	8.3	11
24	60	211	126	45	87	166	802	159	21	6.3	6.6	11
25	70	198	111	45	87	157	686	111	20	6.0	6.6	11
26	69	166	102	45	87	150	602	103	30	5.5	7.2	9.3
27	64	148	89	45	93	144	549	111	31	5.7	9.7	8.3
28	62	132	81	45	131	141	501	108	26	4.6	26	7.9
29	62	124	81	45	------	145	507	100	22	5.2	50	8.3
30	61	121	81	45	------	153	571	93	19	15	52	9.3
31	59	------	81	46	------	160	------	88	------	19	45	------
TOTAL	1,462	2,687	4,053	1,778	1,858	5,335	19,121	11,267	1,286	278.6	770.2	468.4
MEAN	47.2	89.6	131	57.4	66.4	172	637	363	42.9	8.99	24.8	15.6
MAX	87	211	216	81	131	265	1,040	793	80	19	52	41
MIN	20	43	81	45	45	107	149	88	19	4.1	6.6	7.9
MEAN†	48.9	91.4	132	59.7	71.9	162	650	352	39.7	9.44	26.2	13.8
CFSM†	.48	.90	1.31	.59	.71	1.60	6.44	3.49	.39	.09	.26	.14
IN.†	.56	1.01	1.51	.68	.74	1.84	7.19	4.02	.44	.11	.30	.15

CAL YR 1970 TOTAL 59,232.5 MEAN 162 MAX 872 MIN 3.8 MEAN† 162 CFSM† 1.60 IN† 21.78
WTR YR 1971 TOTAL 50,364.2 MEAN 138 MAX 1,040 MIN 4.1 MEAN† 138 CFSM† 1.37 IN† 18.55

† Adjusted for change in contents in Surry Mountain Lake.

01158600 Otter Brook below Otter Brook Dam, near Keene, N.H.

LOCATION.--Lat 42°56'45", long 72°14'14", Cheshire County, on right bank 450 ft downstream from Otter Brook Dam, 2 miles northeast of Keene, 2.4 miles upstream from Minnewawa Brook, and 4.9 miles upstream from mouth.

DRAINAGE AREA.--47.2 sq mi.

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 658.65 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--13 years, 70.4 cfs (20.25 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 528 cfs Apr. 15 (gage height, 8.27 ft); minimum, 1.7 cfs July 29; minimum daily, 2.0 cfs Aug. 26.
Period of record: Maximum discharge, 685 cfs Apr. 20, 1959 (gage height, 8.59 ft); minimum, 0.1 cfs Nov. 28, 1959; minimum daily, 0.3 cfs Sept. 27 to Oct. 2, Oct. 9, 10, 12-20, 1964.

REMARKS.--Records good. Flow regulated by Otter Brook Lake (see p. 209).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	15	41	27	23	76	68	232	43	8.1	23	16
2	14	15	37	23	23	85	73	203	37	10	17	12
3	13	14	35	22	23	85	246	216	33	9.6	15	9.4
4	17	14	64	22	23	74	355	317	37	7.4	27	7.7
5	23	23	86	22	23	65	318	332	33	6.9	24	6.4
6	19	25	75	24	23	65	274	251	27	6.6	17	5.4
7	20	21	52	28	23	65	246	199	23	6.3	13	5.2
8	16	18	38	34	23	64	211	165	21	5.7	11	5.2
9	12	16	37	36	23	49	173	157	23	5.2	8.5	4.6
10	11	15	40	36	23	43	208	199	19	5.2	6.8	3.9
11	10	16	49	31	23	43	317	165	16	4.4	6.3	3.2
12	10	17	44	29	23	43	411	127	13	4.2	8.2	3.0
13	9.6	25	41	29	23	58	443	156	12	3.6	7.5	3.0
14	9.9	30	41	29	23	66	478	269	10	4.0	6.3	8.4
15	13	31	36	25	34	53	513	196	9.2	4.0	5.5	12
16	28	38	31	24	42	118	511	158	8.1	3.6	4.6	11
17	30	39	30	24	57	138	438	165	7.1	3.6	3.8	12
18	24	35	30	24	66	126	284	149	6.0	3.8	3.1	13
19	19	32	30	24	53	124	303	116	5.2	5.2	2.7	11
20	15	37	34	23	43	88	441	101	4.4	11	2.9	8.8
21	14	48	36	23	43	67	487	89	7.7	9.1	3.2	9.2
22	14	48	36	23	42	71	510	105	29	6.6	3.0	9.5
23	17	56	36	23	43	75	428	103	20	6.7	2.6	8.2
24	23	67	36	23	43	70	326	86	13	5.0	2.5	6.8
25	25	58	36	23	43	69	315	75	10	4.0	2.3	5.6
26	24	50	36	23	42	69	280	70	20	3.1	2.0	4.8
27	23	45	36	23	43	68	245	65	21	2.7	2.7	4.3
28	21	42	35	23	54	68	219	58	15	2.1	28	4.2
29	19	41	31	23	------	68	238	53	10	3.2	49	4.0
30	18	42	29	23	------	68	268	51	8.8	28	33	4.0
31	16	------	29	23	------	68	------	48	------	24	22	------
TOTAL	542.5	973	1,247	789	970	2,289	9,627	4,676	541.5	212.9	363.5	221.8
MEAN	17.5	32.4	40.2	25.5	34.6	73.8	321	151	18.1	6.87	11.7	7.39
MAX	30	67	86	36	66	138	513	332	43	28	49	16
MIN	9.6	14	29	22	23	43	68	48	4.4	2.1	2.0	3.0
MEAN†	17.5	32.8	40.6	23.4	38.6	70.2	324	149	17.5	5.97	13.0	6.85
CFSM†	.37	.69	.86	.50	.82	1.49	6.86	3.16	.37	.13	.28	.15
IN.†	.43	.78	.99	.57	.85	1.72	7.67	3.64	.41	.15	.32	.16

CAL YR 1970 TOTAL 26,689.96 MEAN 73.1 MAX 528 MIN .89 MEAN† 73.0 CFSM† 1.55 IN† 20.99
WTR YR 1971 TOTAL 22,453.20 MEAN 61.5 MAX 513 MIN 2.0 MEAN† 61.5 CFSM† 1.30 IN† 17.69

† Adjusted for change in contents in Otter Brook Lake.

01160000 South Branch Ashuelot River at Webb, near Marlborough, N.H.

LOCATION.--Lat 42°52'20", long 72°12'51", Cheshire County, on right bank 15 ft downstream from bridge, at Webb, 2.5 miles south of Marlborough, and at mile 10.9.

DRAINAGE AREA.--36.0 sq mi.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only October 1920, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since July 18, 1938. Datum of gage is 667.11 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--51 years, 57.8 cfs (21.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 545 cfs Apr. 14 (gage height, 5.11 ft); minimum, 3.5 cfs July 17, 18, 19; minimum daily, 3.7 cfs July 18.

Period of record: Maximum discharge, 5,960 cfs Sept. 21, 1938 (gage height, 7.89 ft), from rating curve extended above 3,300 cfs on basis of contracted-opening and slope-area measurements of peak flow; maximum gage height, 9.70 ft Mar. 12, 1936 (ice jam); practically no flow Mar. 22, 1931; minimum daily discharge, 0.4 cfs Sept. 15-17, 1926.

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in WRD Mass., N.H., R.I., Vt. 1966-69.

Water year	Date	Discharge (cfs)	Gage height (feet)
1966	Mar. 25, 1966	828	5.47
1967	Apr. 3, 1967	750	5.39
1968	Mar. 18, 1968	1,260	5.99
1969	Apr. 11, 1969	1,030	5.79

REMARKS.--Records good except those for winter period, which are fair. Regulation at times prior to 1962 by powerplant and several small reservoirs above station; regulation greater prior to 1956. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 641: 1925(M). WSP 871: Drainage area. WSP 1231: 1921-24(M), 1926(M), 1929, 1933-34(M), 1939. Revised figures of discharge, in cubic feet per second, for high-water periods in water years 1967-69, superseding figures published in WRD Mass., N.H., R.I., Vt., 1967-69 are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
1967		1968		1969		1969-Con.	
Apr. 2	335	Mar. 18	760	Apr. 5	355	Apr. 13	335
3	628	19	773	6	528	14	310
4	440	20	540	7	455	15	300
18	407	21	499	8	435	16	295
May 10	435	22	534	9	390	17	295
26	663	23	472	10	596	19	310
27	494	24	670	11	758	23	505
28	345	25	330	12	461	24	420

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
April 1967	6,774	628	79	226	6.28	7.00
May 1967	5,558	663	59	179	4.97	5.74
WTR YR 1967	21,035.2	663	2.5	57.6	1.60	21.74
CAL YR 1967	21,898.7	663	3.3	60.0	1.67	22.63
March 1968	6,026	773	16	194	5.39	6.23
WTR YR 1968	20,389.2	773	1.5	55.7	1.55	21.07
CAL YR 1968	22,171.8	773	1.5	60.6	1.68	22.91
April 1969	8,829	758	86	294	8.17	9.12
WTR YR 1969	25,857.0	758	3.3	70.8	1.97	26.72
CAL YR 1969	27,738.2	758	7.3	76.0	2.11	28.66

Revised peak discharge.--1966: Mar. 25 (1045) 828 cfs (5.47 ft).

1967: Apr. 3 (1830) 750 cfs (5.39 ft); May 10 (0415) 579 cfs (5.13 ft); May 26 (0100) 698 cfs (5.32 ft).

1968: Mar. 18 (1215) 1,260 cfs (5.99 ft); Mar. 24 (0115) 1,000 cfs (5.73 ft); June 14 (0145) 990 cfs (5.72 ft); June 28 (2030) 505 cfs (5.00 ft).

1969: Dec. 5 (0645) 583 cfs (5.15 ft); Apr. 6 (1945) 577 cfs (5.15 ft); Apr. 11 (0115) 1,030 cfs (5.79 ft); Apr. 23 (0845) 616 cfs (5.22 ft); June 16 (0245) 649 cfs (5.29 ft); July 29 (1430) 483 cfs (4.97 ft); Aug. 5 (1045) 705 cfs (5.38 ft).

01160000 South Branch Ashuelot River at Webb, near Marlborough, N.H.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	9.5	22	18	17	86	65	133	34	10	43	17
2	6.8	9.3	23	18	17	71	91	112	29	27	28	13
3	7.3	8.8	20	19	16	59	321	134	33	20	22	11
4	15	9.3	44	20	16	55	344	296	49	13	31	10
5	16	13	53	26	16	55	279	207	37	9.3	27	9.5
6	12	20	41	31	17	51	232	133	30	7.9	19	9.1
7	9.8	26	35	30	18	45	207	107	24	7.7	14	8.1
8	8.6	21	29	27	18	45	162	91	20	7.3	11	7.7
9	7.7	19	26	26	22	42	131	101	22	6.6	9.3	7.5
10	6.8	13	25	24	22	39	202	179	19	6.4	8.3	6.2
11	6.4	11	23	22	20	36	320	122	15	6.0	12	5.8
12	6.2	12	22	21	19	34	377	95	14	5.4	37	9.5
13	5.8	12	21	20	20	33	440	167	16	5.0	27	14
14	5.6	11	21	20	30	32	479	275	16	4.8	17	17
15	6.4	13	20	20	45	35	353	150	16	4.4	12	23
16	27	24	19	20	55	96	270	110	15	4.1	9.5	20
17	30	24	22	18	61	118	198	126	9.1	3.9	8.8	17
18	21	20	25	17	56	100	182	102	8.8	3.7	7.9	16
19	16	19	25	17	49	82	222	84	7.1	4.8	7.1	14
20	13	23	25	16	45	75	311	73	6.6	7.1	6.6	12
21	11	32	24	16	43	67	323	65	8.6	6.6	6.0	13
22	11	32	23	16	40	59	279	78	17	6.0	5.6	12
23	14	43	23	16	39	55	215	72	13	5.6	5.8	11
24	20	43	23	16	38	51	163	60	9.5	5.4	5.2	10
25	19	32	23	17	35	49	171	53	8.6	5.2	4.6	9.1
26	17	25	22	19	32	45	157	50	21	4.8	4.4	8.3
27	15	22	22	23	55	43	133	45	20	4.6	5.0	8.1
28	14	19	22	27	95	43	116	42	14	4.2	75	7.3
29	12	20	21	23	------	47	160	38	11	9.1	116	6.8
30	11	21	20	21	------	57	175	34	9.8	175	50	6.4
31	9.8	------	19	19	------	61	------	34	------	75	27	------
TOTAL	388.7	606.9	783	643	956	1,766	7,078	3,368	553.1	465.9	662.1	339.4
MEAN	12.5	20.2	25.3	20.7	34.1	57.0	236	109	18.4	15.0	21.4	11.3
MAX	30	43	53	31	95	118	479	296	49	175	116	23
MIN	5.6	8.8	19	16	16	32	65	34	6.6	3.7	4.4	5.8
CFSM	.35	.56	.70	.58	.95	1.58	6.96	3.03	.51	.42	.59	.31
IN.	.40	.63	.81	.66	.99	1.82	7.31	3.48	.57	.48	.68	.35

CAL YR 1970 TOTAL 21,715.8 MEAN 59.5 MAX 738 MIN 3.4 CFSM 1.65 IN 22.44
WTR YR 1971 TOTAL 17,610.1 MEAN 48.2 MAX 479 MIN 3.7 CFSM 1.34 IN 18.20

PEAK DISCHARGE (BASE, 550 CFS).-- No peak above base.

01161000 Ashuelot River at Hinsdale, N.H.

LOCATION.--Lat 42°47'07", long 72°29'12", Cheshire County, on left bank 40 ft upstream from highway bridge at Hinsdale, 0.2 mile downstream from dam, and 1.2 mile upstream from mouth.

DRAINAGE AREA.--420 sq mi.

PERIOD OF RECORD.--March 1907 to December 1911, July 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 101.32 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 29, 1933, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--61 years, 646 cfs (20.89 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,840 cfs Apr. 14 (gage height, 6.92 ft): minimum, 56 cfs about July 18, 28; minimum daily, 60 cfs July 18, 28.

Period of record: Maximum discharge, 16,600 cfs Mar. 19, 1936, by computation of peak flow over dam; maximum gage height, 20.2 ft Mar. 19, 1936, from floodmarks (backwater from Connecticut River); minimum discharge, 10 cfs Sept. 9, 1953; minimum daily, 12 cfs Sept. 15, 1929.

Maximum discharge since at least 1859, that of Mar. 19, 1936.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Flow regulated by Surry Mountain Lake 33 miles upstream since 1942 and by Otter Brook Lake 29 miles upstream since 1958 (see p. 209). Occasional diurnal fluctuation at low flow by mills above station; greater regulation prior to 1952.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 781: 1907-10, 1914-34. WSP 1301: 1915(M), 1917-19(M), 1921-33(M). WSP 1701: 1920.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	174	383	240	210	796	991	1,810	426	132	400	220
2	130	169	358	235	196	864	988	1,660	371	156	340	170
3	128	166	335	235	193	844	1,700	1,590	349	154	300	150
4	179	169	443	230	189	764	2,550	2,120	400	135	330	130
5	225	182	700	270	193	685	2,670	2,440	376	115	330	115
6	218	218	679	309	154	674	2,480	2,250	309	101	250	105
7	196	208	581	301	197	651	2,270	2,000	272	100	190	98
8	185	193	420	288	196	601	2,030	1,710	251	91	150	94
9	166	182	364	279	207	578	1,910	1,570	234	85	125	90
10	154	171	352	270	216	501	1,860	1,720	224	80	115	88
11	142	171	324	260	211	477	2,310	1,660	215	76	113	90
12	135	185	358	250	202	457	2,870	1,430	202	73	137	100
13	133	185	413	238	200	421	3,340	1,390	190	71	159	120
14	128	188	443	231	273	431	3,780	2,020	179	68	142	140
15	137	199	390	242	360	443	3,770	2,060	168	68	119	160
16	205	257	335	225	381	667	3,420	1,740	157	66	104	170
17	288	297	347	220	446	1,140	3,020	1,610	148	63	98	160
18	284	292	324	210	467	1,210	2,610	1,480	135	60	87	150
19	245	284	318	200	458	1,130	2,220	1,280	123	62	79	140
20	212	314	318	200	405	988	2,380	1,100	113	80	74	130
21	188	405	318	199	368	931	2,740	955	109	82	70	140
22	182	465	320	202	348	823	2,900	901	167	74	69	130
23	193	510	310	212	344	787	2,830	915	192	70	68	120
24	218	616	310	205	342	729	2,530	834	158	66	65	110
25	235	602	300	199	337	674	2,230	745	139	64	63	100
26	231	518	290	200	341	652	2,040	657	176	62	63	92
27	222	443	280	222	431	633	1,840	617	194	61	67	85
28	208	405	275	231	619	633	1,650	589	169	60	148	80
29	196	375	270	230	------	663	1,630	534	142	80	460	76
30	188	383	260	231	------	754	1,820	480	124	250	470	74
31	182	------	250	220	------	840	------	456	------	370	350	------
TOTAL	5,670	8,926	11,368	7,284	8,525	22,441	71,179	42,363	6,412	3,075	5,535	3,627
MEAN	183	298	367	235	304	724	2,373	1,367	214	99.2	179	121
MAX	288	616	700	309	619	1,210	3,780	2,440	426	370	470	220
MIN	128	166	250	199	189	421	991	456	109	60	63	74
MEAN†	191	300	369	235	314	710	2,389	1,353	210	98.7	181	119
CFSM†	.45	.71	.88	.56	.75	1.69	5.69	3.22	.50	.24	.43	.28
IN.†	.52	.80	1.01	.65	.78	1.95	6.35	3.72	.56	.27	.50	.31

CAL YR 1970 TOTAL 255,574 MEAN 700 MAX 4,600 MIN 57 MEAN† 700 CFSM† 1.67 IN† 22.62
WTR YR 1971 TOTAL 196,605 MEAN 539 MAX 3,780 MIN 60 MEAN† 539 CFSM† 1.28 IN† 17.41

† Adjusted for change in contents in Surry Mountain and Otter Brook Lakes.

NOTE.--No gage-height record July 16 to Aug. 10, Aug. 30 to Sept. 30.

01161500 Tarbell Brook near Winchendon, Mass.

LOCATION.--Lat 42°42'45", long 72°05'09", Worcester County, on left bank 0.1 mile downstream from Spud Brook, 0.3 mile downstream from Massachusetts-New Hampshire State line, and 2.8 miles northwest of Winchendon.

DRAINAGE AREA.--18.2 sq mi.

PERIOD OF RECORD.--May 1916 to current year. Prior to October 1950, published as Sip Pond Brook near Winchendon.

GAGE.--Water-stage recorder. Concrete control since Sept. 24, 1965. Datum of gage is 872.82 ft above mean sea level. May 29 to June 29, 1916, nonrecording gage; June 30 to Dec. 12, 1916, water-stage recorder; and Dec. 13, 1916, to June 26, 1917, nonrecording gage, all at site 450 ft downstream at same datum.

AVERAGE DISCHARGE.--55 years, 28.8 cfs (21.49 inches per year).

EXTREMES.--Current year: Maximum discharge, 184 cfs Apr. 14 (gage height, 8.51 ft); minimum, 1.4 cfs Aug. 25-27.
Period of record: Maximum discharge, 2,630 cfs Sept. 21, 1938 (gage height, 13.72 ft); from rating curve extended above 1,200 cfs on basis of critical-depth study at control section; minimum, 0.1 cfs Aug. 25, 1924.

REMARKS.--Records good except those for winter period, which are fair. Some regulation by Pearly and Sip Ponds and Damon Reservoirs 1 mile upstream. Prior to 1967, greater regulation by these reservoirs and by small mill above station.

REVISIONS (WATER YEARS).--WSP 781: 1934. WSP 871: Drainage area. WSP 1051: 1928(M), 1933-34. WSP 1301: 1917(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	7.2	18	14	12	33	38	84	11	9.1	4.7	4.9
2	6.8	7.2	17	14	11	32	45	72	11	10	12	4.2
3	6.2	7.2	16	13	11	31	79	68	15	8.2	8.5	4.9
4	8.5	8.8	31	12	10	31	121	83	16	6.2	9.8	3.5
5	8.2	17	55	15	10	31	127	92	14	6.0	7.5	3.2
6	11	16	49	18	10	29	122	85	13	6.0	6.5	2.6
7	11	11	32	18	11	27	121	68	12	5.7	4.7	2.8
8	8.8	13	26	17	11	26	116	58	11	5.5	4.7	2.8
9	7.5	13	23	16	12	24	103	53	9.8	4.4	6.0	3.0
10	6.8	12	21	15	12	24	95	54	8.5	3.5	3.7	3.0
11	6.2	14	19	14	11	22	106	50	7.8	3.0	3.7	3.2
12	6.0	13	19	12	11	21	129	44	7.2	3.0	4.4	14
13	6.8	13	19	13	12	21	150	45	6.8	3.0	3.5	15
14	6.0	13	19	12	22	21	179	64	6.2	3.7	3.5	14
15	8.8	17	17	12	25	22	166	65	6.0	4.9	3.4	12
16	11	24	15	12	23	41	144	56	5.5	5.5	3.5	11
17	11	20	18	11	22	50	125	56	5.5	3.7	3.4	12
18	8.2	16	19	11	22	47	110	51	6.5	3.5	3.2	11
19	8.2	16	17	11	22	45	102	44	4.4	5.7	2.6	8.8
20	8.2	17	16	10	22	45	106	38	3.5	5.5	2.8	7.2
21	4.9	20	15	10	22	41	115	34	3.9	3.2	3.0	7.5
22	5.2	21	15	10	24	40	119	36	6.0	2.8	2.5	6.8
23	8.8	27	16	11	22	37	112	36	8.2	3.0	2.1	5.7
24	17	26	16	10	21	36	102	32	6.8	2.8	1.8	5.2
25	14	24	16	11	21	33	94	29	6.8	3.0	1.7	4.4
26	12	21	15	11	20	31	89	26	9.5	3.0	1.4	4.4
27	9.5	19	15	14	25	30	81	24	7.5	4.2	7.8	3.4
28	9.5	17	14	15	33	29	72	22	7.8	4.2	11	3.5
29	9.8	18	14	14	------	29	73	20	6.8	3.7	4.2	3.7
30	7.2	18	14	13	------	32	86	18	6.5	8.5	3.2	3.5
31	7.2	------	14	12	------	34	------	15	------	6.2	4.2	------
TOTAL	266.8	486.4	630	401	490	995	3,227	1,522	250.5	150.7	145.0	191.2
MEAN	8.61	16.2	20.3	12.9	17.5	32.1	108	49.1	8.35	4.86	4.68	6.37
MAX	17	27	55	18	33	50	179	92	16	10	12	15
MIN	4.9	7.2	14	10	10	21	38	15	3.5	2.8	1.4	2.6
CFSM	.47	.89	1.12	.71	.96	1.76	5.93	2.70	.46	.27	.26	.35
IN.	.55	.99	1.29	.82	1.00	2.03	6.60	3.11	.51	.31	.30	.39

CAL YR 1970 TOTAL 11,886.6 MEAN 32.6 MAX 210 MIN 3.7 CFSM 1.79 IN 24.30
WTR YR 1971 TOTAL 8,755.6 MEAN 24.0 MAX 179 MIN 1.4 CFSM 1.32 IN 17.90

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0830	8.51	184				

01162000 Millers River near Winchendon, Mass.

LOCATION.--Lat 42°41'03", long 72°05'02", Worcester County, on right bank 10 ft downstream from Nolan Bridge, 0.3 mile downstream from Tarbell Brook, 2 miles west of Winchendon, and at mile 32.8.

DRAINAGE AREA.--83.0 sq mi.

PERIOD OF RECORD.--June 1916 to current year. March to May 1917, monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Concrete control since Oct. 6, 1933. Datum of gage is 826.66 ft above mean sea level. Prior to July 27, 1916, nonrecording gage at bridge at same datum.

AVERAGE DISCHARGE.--55 years, 139 cfs (22.74 inches per year).

EXTREMES.--Maximum discharge, 763 cfs Apr. 14 (gage height, 7.21 ft); minimum daily, 16 cfs July 25, 26, Aug. 26.

Period of record: Maximum discharge, 8,500 cfs Sept. 22, 1938 (gage height, 21.55 ft, from floodmarks), from rating curve extended above 2,000 cfs on basis of computation of peak flow over dam; practically no flow because of regulation Sept. 20, 1918, Jan. 14, 1925.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Lake Monomonac 6 miles upstream and other reservoirs and, prior to 1957, by powerplant.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1920-21(M), 1922-24, 1928(M), 1933-34.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	88	54	46	44	154	178	400	50	72	61	30
2	81	86	49	46	43	136	237	363	54	110	75	26
3	84	75	48	47	41	180	498	360	60	92	68	23
4	110	63	92	47	39	170	550	447	71	71	63	22
5	111	75	132	52	39	160	541	437	68	60	54	20
6	98	69	114	64	41	150	515	392	60	51	47	19
7	86	49	85	66	43	140	506	339	57	47	40	19
8	81	41	70	59	47	135	478	294	52	39	34	22
9	75	37	68	57	55	130	437	234	54	30	30	24
10	68	34	66	55	57	125	449	223	52	27	27	22
11	81	40	80	52	56	120	515	203	47	26	32	20
12	86	41	95	48	55	116	584	238	42	26	46	59
13	94	40	98	45	58	112	648	247	40	25	52	80
14	150	40	99	45	98	109	738	373	40	25	42	70
15	148	45	95	45	110	115	743	346	37	26	36	62
16	153	66	93	41	110	241	703	308	34	24	32	61
17	123	60	98	42	109	271	613	314	32	25	28	89
18	111	51	63	41	107	262	537	282	32	29	25	93
19	107	49	60	40	103	222	503	262	29	31	22	61
20	103	54	98	39	104	207	520	209	27	36	23	64
21	103	86	56	39	100	187	569	191	90	29	21	66
22	103	86	52	39	95	174	560	187	114	26	19	58
23	111	75	55	39	93	159	552	156	87	20	18	44
24	127	73	50	40	86	152	507	132	69	18	18	46
25	146	63	57	40	83	145	475	101	58	16	17	40
26	170	55	55	42	80	135	469	81	81	16	16	26
27	127	52	52	51	109	130	616	77	70	17	29	32
28	110	49	51	55	102	127	596	81	58	18	50	51
29	107	52	50	51	------	136	600	73	48	19	58	51
30	98	54	60	53	------	152	610	68	55	37	41	58
31	92	------	68	67	------	160	------	66	------	48	36	------
TOTAL	[illegible]	1,714	[illegible]	1,472	2,179	[illegible]	15,211	7,466	1,636	1,196	1,182	1,300
MEAN	106	57.1	67.7	47.5	77.8	150	507	241	54.5	38.6	38.1	43.3
MAX	153	88	132	66	110	271	743	447	114	110	75	93
MIN	65	34	48	39	39	109	178	66	27	16	16	19
CFSM	1.28	.69	.82	.57	.94	1.80	6.11	2.90	.66	.46	.46	.52
IN.	1.48	.77	.94	.66	.98	2.19	6.82	3.35	.73	.54	.53	.58

CAL YR 1970 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] CFSM [illegible] IN [illegible]
WTR YR 1971 TOTAL [illegible] MEAN [illegible] MAX 743 MIN 16 CFSM [illegible] IN [illegible]

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	2315	7.21	763				

01162500 Priest Brook near Winchendon, Mass.

LOCATION.--Lat 42°40'57", long 72°06'56", Worcester County, on right bank 100 ft downstream from highway bridge, 3 miles upstream from mouth, and 3.5 miles west of Winchendon.

DRAINAGE AREA.--19.4 sq mi.

PERIOD OF RECORD.--May 1916 to current year. Monthly discharge only October 1917 to July 1918 (published in WSP 1301) and September 1935 to September 1936.

GAGE.--Water-stage recorder. Concrete control since September 1936. Datum of gage is 849.67 ft above mean sea level. Prior to Sept. 11, 1936, nonrecording gage on left bank at same datum.

AVERAGE DISCHARGE.--55 years, 32.0 cfs (22.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 213 cfs Apr. 14 (gage height, 4.22 ft); minimum, 0.79 cfs July 29.
Period of record: Maximum discharge, 3,000 cfs Sept. 21, 1938 (gage height, 9.90 ft), from rating curve extended above 620 cfs on basis of contracted-opening measurements at gage heights 8.4 and 9.90 ft; minimum, 0.08 cfs several times in September 1929.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Prior to 1962, occasional diurnal fluctuation at low flow by mill above station; prior to 1953, regulation at low flow by mill and ponds.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 871: Drainage area. WSP 1051: 1919, 1922-24. WSP 1301: 1917(M), 1919-24(M), 1926-27(M), 1929(M), 1931-35(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	7.7	16	11	12	43	50	78	12	3.7	19	12
2	5.2	7.4	16	11	11	44	55	70	11	11	17	8.8
3	8.6	7.2	19	12	11	41	111	67	12	7.2	13	6.9
4	8.6	10	30	12	11	37	160	93	10	4.1	11	5.5
5	7.4	10	45	15	10	34	168	106	16	2.8	11	6.9
6	6.2	15	39	18	10	33	152	91	13	2.3	8.4	14
7	5.5	13	31	17	10	32	136	75	11	2.0	6.6	12
8	5.0	12	24	16	10	29	119	61	13	1.7	5.2	6.3
9	4.8	11	19	15	12	26	108	54	13	1.5	4.3	3.9
10	4.6	10	16	14	13	24	101	58	9.5	1.4	3.3	2.8
11	4.4	12	15	13	12	23	123	55	7.2	1.3	3.1	2.1
12	4.3	14	15	12	11	22	160	45	5.7	1.3	5.2	14
13	4.3	14	16	12	12	21	182	48	5.2	1.7	5.2	25
14	4.3	16	15	12	18	20	208	78	5.5	1.4	4.3	29
15	6.0	20	14	11	22	22	198	79	5.2	1.2	3.9	17
16	9.0	27	13	11	29	30	169	67	4.5	1.1	3.3	8.8
17	9.5	20	13	11	29	59	135	63	3.9	1.2	2.8	11
18	8.0	19	14	10	28	62	115	57	8.1	2.0	2.3	11
19	7.0	14	15	10	26	57	107	47	8.8	2.3	1.8	10
20	6.6	17	15	9.5	25	54	119	39	4.7	4.3	1.7	8.4
21	9.2	25	15	9.5	24	50	132	36	4.7	3.5	1.4	7.8
22	9.4	31	14	9.6	23	48	132	39	6.6	2.4	1.3	7.2
23	10	28	14	9.6	22	44	121	28	5.7	1.8	1.2	6.0
24	23	29	14	9.8	21	38	107	29	4.3	1.6	1.1	5.2
25	20	21	14	9.8	20	37	94	26	3.7	1.5	.96	4.5
26	17	19	14	10	19	32	58	21	5.7	1.2	.98	5.0
27	14	17	13	12	24	29	59	18	5.7	1.2	2.8	5.0
28	12	16	13	13	30	28	61	15	4.1	.98	8.8	4.3
29	10	16	13	15	------	30	67	13	3.1	1.1	22	3.5
30	9.0	17	12	14	------	37	80	12	2.6	4.5	19	2.9
31	8.2	------	12	13	------	60	------	12	------	15	15	------
TOTAL	257.6	495.3	540	375.0	512	1,139	3,991	1,500	233.5	89.88	206.16	262.8
MEAN	8.31	16.5	17.4	12.1	18.3	36.7	133	48.4	7.78	2.90	6.65	8.76
MAX	23	31	45	18	30	62	208	106	16	15	22	29
MIN	4.3	7.2	12	9.5	10	20	50	12	2.6	.98	.96	2.1
CFSM	.43	.85	.90	.62	.94	1.89	6.86	2.49	.40	.15	.34	.45
IN.	.49	.95	1.04	.72	.98	2.18	7.65	2.88	.45	.17	.40	.50

CAL YR 1970 TOTAL 12,256.92 MEAN 33.6 MAX 290 MIN 4.3 CFSM 1.73 IN 23.51
WTR YR 1971 TOTAL 9,602.24 MEAN 26.3 MAX 208 MIN .96 CFSM 1.36 IN 18.41

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0900	4.22	213				

NOTE.--No gage-height record Oct. 6-23, Oct. 28 to Dec. 2.

01163200 Otter River at Otter River, Mass.

LOCATION.--Lat 42°35'18", long 72°02'29", Worcester County, on right bank at upstream side of Turner Street Bridge, 0.2 mile upstream from Bailey Brook, 0.8 mile southeast of Otter River, and 2 miles northwest of Gardner.

DRAINAGE AREA.--34.2 sq mi.

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 900 ft (from topographic map).

AVERAGE DISCHARGE.--6 years (1965-71), 51.5 cfs (20.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 289 cfs Apr. 4 (gage height, 2.90 ft); minimum not determined; minimum daily, 5.2 cfs Aug. 25, 26.
Period of record: Maximum discharge, 637 cfs Mar. 19, 1968 (gage height, 4.19 ft); minimum, 3.3 cfs Aug. 29-31, 1966.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	19	33	22	20	70	101	96	35	24	33	20
2	20	18	31	21	19	74	115	84	32	68	37	15
3	17	17	30	21	19	55	204	81	29	61	40	12
4	23	17	48	22	18	56	277	111	33	43	47	10
5	20	23	58	25	18	71	276	118	30	31	46	8.5
6	22	30	53	30	18	63	236	102	27	24	37	6.6
7	16	24	44	28	18	59	211	87	23	21	31	6.1
8	16	23	35	26	19	55	191	74	23	18	25	6.3
9	19	20	30	25	21	51	175	82	27	17	32	6.3
10	25	19	29	24	23	49	163	96	26	14	21	6.1
11	21	27	28	23	22	48	188	96	23	13	19	9.7
12	18	25	27	22	21	47	210	84	22	12	25	24
13	14	25	26	21	23	41	230	83	20	12	21	40
14	11	31	29	21	32	40	236	124	19	13	17	35
15	9.8	35	24	20	40	44	236	126	19	11	14	30
16	16	41	23	20	52	100	217	107	15	9.8	12	25
17	20	37	27	19	52	137	183	102	13	9.4	11	29
18	17	33	28	19	50	135	151	93	12	13	9.5	28
19	16	31	29	18	48	120	136	80	11	14	9.0	25
20	15	36	25	18	45	110	135	70	9.6	21	8.2	23
21	14	50	24	18	43	95	134	63	30	17	7.2	24
22	14	47	24	17	41	89	131	67	24	13	6.4	21
23	25	54	25	17	39	80	119	66	28	13	5.9	18
24	35	54	26	17	38	75	108	59	25	10	5.4	16
25	28	46	25	18	37	74	100	51	27	9.8	5.2	16
26	27	39	24	25	37	68	95	47	51	9.4	5.2	14
27	27	35	24	30	40	62	89	44	38	13	10	12
28	26	33	23	28	60	62	82	42	27	16	20	11
29	28	32	23	26	------	67	85	40	24	13	40	10
30	27	33	23	24	------	84	96	37	20	10	38	10
31	21	------	23	22	------	96	------	36	------	33	33	------
TOTAL	616.9	957	912	687	913	2,279	4,915	2,448	753.6	602.6	678.9	515.6
MEAN	19.9	31.9	29.4	22.2	32.6	73.4	164	79.0	25.1	19.4	21.9	17.2
MAX	35	54	58	30	60	137	277	126	51	68	47	40
MIN	9.1	17	22	17	18	40	82	36	9.6	9.4	5.2	6.1
CFSM	.58	.93	.86	.65	.95	2.15	4.80	2.31	.73	.57	.64	.50
IN.	.67	1.04	.99	.75	.99	2.47	5.35	2.66	.82	.66	.73	.56

CAL YR 1970 TOTAL 19,913.6 MEAN 54.6 MAX 402 MIN 6.7 CFSM 1.60 IN 21.66
WTR YR 1971 TOTAL 16,223.6 MEAN 44.4 MAX 277 MIN 5.2 CFSM 1.30 IN 17.65

NOTE.--No gage-height record Jan. 21 to Feb. 28.

01164000 Millers River at South Royalston, Mass.

LOCATION.--Lat 42°37'47", long 72°09'03", Worcester County, on right bank 500 ft downstream from bridge in South Royalston, 0.4 mile downstream from Beaver Brook, 1.7 miles downstream from Birch Hill Dam, and at mile 25.5.

DRAINAGE AREA.--187 sq mi.

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 792.00 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--32 years, 303 cfs (22.00 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,430cfs Apr. 15 (gage height, 6.66 ft); minimum daily, 38 cfs Aug. 26.
Period of record: Maximum discharge, 4,400 cfs Apr. 13, 1940 (gage height, 8.40 ft); maximum gage height, 9.42 ft Jan. 24, 1959 (backwater from ice); minimum daily discharge, 9.3 cfs Aug. 4, 195[illegible]. Maximum discharge since construction of Birch Hill Reservoir in 1941, 2,830 cfs June 25, 26, 1944 (gage height, 7.57 ft).
Flood of Sept. 21 or 22, 1938, reached a stage of 15.9 ft, from floodmarks (discharge not determined).

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Lake Monomonac and other reservoirs, by mills and powerplants prior to 1955, and at high flow by Birch Hill Reservoir (see p. 209).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	143	163	[illegible]	105	354	459	738	163	120	191	79
2	109	141	155	[illegible]	100	354	519	680	153	330	213	68
3	124	131	148	[illegible]	97	377	744	643	148	291	207	60
4	171	116	213	[illegible]	94	344	892	777	177	194	194	57
5	182	180	335	[illegible]	92	354	1,120	878	169	145	182	54
6	160	213	309	[illegible]	94	382	1,300	823	148	116	145	54
7	141	163	274	[illegible]	98	321	1,320	718	179	100	116	57
8	124	193	269	[illegible]	105	295	1,320	612	166	87	96	52
9	118	116	174	[illegible]	120	285	1,120	559	158	74	87	51
10	116	109	165	[illegible]	130	260	983	559	141	66	79	48
11	120	111	157	[illegible]	125	245	1,030	536	116	61	69	44
12	131	127	140	[illegible]	120	234	1,160	514	101	60	133	107
13	124	127	141	[illegible]	125	227	1,270	519	94	58	124	224
14	169	127	143	[illegible]	180	224	1,360	699	98	59	98	194
15	179	143	140	[illegible]	240	238	1,430	751	90	60	80	169
16	196	191	160	100	260	427	1,370	687	82	57	71	138
17	201	189	150	90	270	618	1,260	661	76	57	65	153
18	182	160	141	[illegible]	260	612	1,110	618	71	71	59	185
19	171	149	140	[illegible]	250	582	997	548	74	70	56	153
20	163	180	[illegible]	[illegible]	240	525	962	480	68	66	54	111
21	158	201	[illegible]	[illegible]	230	514	976	427	100	65	53	100
22	150	213	[illegible]	[illegible]	225	454	990	438	279	69	51	107
23	176	227	[illegible]	[illegible]	215	417	976	402	213	60	45	96
24	217	249	[illegible]	[illegible]	205	377	920	349	164	53	43	80
25	231	217	[illegible]	[illegible]	200	344	857	296	133	49	39	84
26	226	170	[illegible]	[illegible]	195	330	786	241	207	47	38	84
27	210	160	[illegible]	[illegible]	227	313	731	220	207	48	42	84
28	195	168	[illegible]	[illegible]	309	309	676	217	145	56	116	61
29	176	150	[illegible]	[illegible]	------	330	600	198	116	94	171	70
30	171	150	[illegible]	[illegible]	------	382	738	179	101	77	191	82
31	155	------	[illegible]	[illegible]	------	427	------	176	------	122	98	------
TOTAL	5,042	[illegible]	[illegible]	[illegible]	4,911	11,455	30,064	16,161	4,128	2,897	3,166	2,866
MEAN	163	[illegible]	[illegible]	[illegible]	175	370	1,002	521	138	93.5	102	95.5
MAX	[illegible]	[illegible]	[illegible]	[illegible]	309	618	1,430	878	279	330	213	224
MIN	[illegible]	[illegible]	[illegible]	[illegible]	92	224	459	176	68	47	38	44
MEAN‡	[illegible]	[illegible]	[illegible]	[illegible]	156	371	1,006	517	138	93.3	102	95.3
CFSM‡	[illegible]	[illegible]	[illegible]	[illegible]	.84	1.98	5.37	2.76	.74	.50	.55	.51
IN.‡	[illegible]	[illegible]	[illegible]	[illegible]	.88	2.29	5.99	3.19	.82	.58	.63	.57

CAL YR 1970 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN‡ [illegible] CFSM‡ [illegible] IN‡ [illegible]
WTR YR 1971 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN‡ [illegible] CFSM‡ [illegible] IN‡ [illegible]

‡ Adjusted for change in contents in Birch Hill Reservoir.

01165000 East Branch Tully River near Athol, Mass.

LOCATION.--Lat 42°38'32", long 72°13'34", Worcester County, on right bank 300 ft downstream from Tully Dam, 1.3 miles downstream from Lawrence Brook, 3.5 miles north of Athol, and 4.9 miles upstream from mouth.

DRAINAGE AREA.--50.4 sq mi.

PERIOD OF RECORD.--October 1915 to current year. October 1915 to May 1916 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 613.71 ft above mean sea level (Corps of Engineers bench mark). Prior to Oct. 26, 1948, nonrecording gage at site 0.2 mile upstream at datum 14.40 ft higher.

AVERAGE DISCHARGE.--56 years, 79.6 cfs (21.45 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 510 cfs Apr. 14 (gage height, 4.57 ft); minimum, 0.42 cfs Aug. 20; minimum daily, 1.9 cfs Sept. 13.
Period of record: Maximum discharge, 5,140 cfs Sept. 21, 1938 (gage height, 8.60 ft, from floodmarks, site and datum then in use), from rating curve extended above 1,500 cfs on basis of contracted-opening measurement and computation of peak flow over dam; minimum, 0.01 cfs Nov. 6-11, 1961; minimum daily, 0.01 cfs Nov. 7-10, 1961. Maximum discharge since construction of Tully Reservoir in 1948, 828 cfs Apr. 21, 1960 (gage height, 5.38 ft).

REMARKS.--Records good. Flow regulated by Tully Reservoir since 1948 (see p. 209).

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 891: Drainage area. WSP 1051: 1916(M), 1928. WSP 1301: 1917-35(M), 1937(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	18	47	36	36	74	89	139	49	6.0	5.2	32
2	11	18	47	32	33	95	92	140	49	5.7	25	4.5
3	11	19	47	30	26	105	100	139	49	5.6	38	4.5
4	15	16	58	30	26	105	115	141	49	5.6	38	4.5
5	17	9.2	65	30	26	105	211	205	49	5.3	38	4.5
6	19	16	66	30	26	103	322	251	49	5.2	38	4.5
7	18	28	66	48	26	102	340	179	48	5.2	24	4.4
8	14	28	66	56	26	100	323	138	48	15	17	2.6
9	10	28	61	56	26	66	300	138	48	18	17	2.8
10	9.2	26	57	55	26	49	198	137	23	18	17	2.9
11	9.6	24	57	55	26	80	159	137	10	18	17	2.9
12	9.8	24	57	45	30	94	204	124	10	18	17	2.9
13	9.8	26	56	39	33	92	351	117	10	18	17	1.9
14	11	27	56	34	34	90	470	119	10	19	17	31
15	12	27	40	30	34	88	488	143	10	15	11	49
16	14	27	30	30	52	87	383	153	10	13	6.4	49
17	19	27	30	30	61	49	231	153	9.7	13	12	49
18	16	28	30	29	67	108	155	150	8.9	13	19	49
19	16	28	30	29	73	150	200	147	10	13	8.7	19
20	18	34	30	29	72	176	235	145	11	13	6.8	3.9
21	16	38	30	22	72	180	255	112	9.1	13	10	18
22	16	38	35	17	72	137	240	77	8.6	15	8.7	26
23	17	38	39	17	71	98	207	77	8.2	12	8.7	26
24	17	50	39	17	56	97	206	76	8.2	8.7	8.7	24
25	17	60	39	18	62	96	204	38	8.2	8.2	6.8	19
26	17	55	39	50	62	94	150	32	7.6	7.3	2.9	19
27	18	34	39	87	76	90	130	25	7.3	6.0	2.9	19
28	18	55	39	56	76	87	130	90	6.8	5.6	2.1	9.6
29	18	67	41	56	------	86	130	90	6.2	6.0	23	3.8
30	18	67	33	56	------	86	130	90	6.0	6.4	50	3.2
31	18	------	56	56	------	87	------	90	------	6.9	92	------
TOTAL	455.4	926.2	1,395	1,055	1,202	3,090	6,793	3,612	636.6	336.4	572.9	492.1
MEAN	14.7	30.9	45.0	34.0	42.9	99.7	226	117	21.2	10.9	18.5	16.4
MAX	19	67	66	56	76	180	488	251	49	19	92	49
MIN	9.2	9.2	30	17	26	49	89	32	6.0	5.3	2.1	1.9
MEAN†	19.7	39.3	47.1	32.9	47.0	89.0	244	119	20.6	10.6	18.9	1.93
CFSM†	.39	.78	.93	.65	.93	1.77	4.84	2.36	.41	.21	.38	.04
IN.†	.45	.87	1.08	.76	.97	2.04	5.40	2.72	.45	.24	.43	.04

CAL YR 1970 TOTAL 29,828.5 MEAN 81.7 MAX 501 MIN 5.0 MEAN† 82.2 CFSM† 1.63 IN† 22.19
WTR YR 1971 TOTAL 20,566.6 MEAN 56.4 MAX 488 MIN 1.9 MEAN† 57.5 CFSM† 1.14 IN† 15.48

† Adjusted for change in contents in Tully Reservoir.

01165300 Lake Rohunta Outlet near Athol, Mass.

LOCATION.--Lat 42°34'13", long 72°16'22", Worcester County, on right bank 300 ft downstream from bridge on Daniel Shays Highway, 600 ft downstream from Lake Rohunta, and 2.8 miles southwest of Athol.

DRAINAGE AREA.--20.3 sq mi.

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 503.32 ft above mean sea level.

AVERAGE DISCHARGE.--6 years (1965-71), 29.7 cfs.

EXTREMES.--Current year: Maximum discharge, 135 cfs Apr. 5 (gage height, 2.68 ft); minimum daily, 0.17 cfs June 3, 4.
Period of record: Maximum discharge, 420 cfs Apr. 18, 1967 (gage height, 4.60 ft); minimum daily, 0.17 cfs June 3, 4, 1971.

REMARKS.--Records good except those below 1 cfs, which are fair. Flow regulated by Lake Rohunta.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	10	15	12	6.1	42	50	49	4.0	13	10	8.9
2	3.0	7.7	15	13	6.3	45	54	49	.24	16	14	8.5
3	4.2	6.8	13	12	5.3	45	77	48	.17	20	16	8.2
4	4.7	6.1	17	12	5.7	50	115	67	.17	21	16	7.2
5	4.9	11	23	14	11	45	132	77	.19	20	17	6.6
6	5.6	14	24	15	13	40	125	77	.24	17	17	5.4
7	5.3	15	21	16	11	37	123	69	.24	16	15	5.2
8	5.2	13	19	16	15	37	114	62	.32	15	14	5.2
9	5.0	12	18	13	17	34	104	60	.52	13	12	4.7
10	4.7	11	17	15	16	31	96	65	1.1	11	11	4.2
11	5.1	12	15	14	12	30	100	64	2.1	9.6	10	4.0
12	11	13	15	13	14	28	112	61	3.4	8.5	10	10
13	16	12	16	5.6	15	26	118	57	4.7	8.2	9.6	13
14	18	15	16	13	20	27	116	69	5.9	5.9	9.2	15
15	18	16	14	13	23	27	114	75	6.6	5.4	8.5	16
16	18	19	11	11	25	38	106	69	6.6	4.7	7.9	15
17	16	18	16	5.7	24	54	93	67	6.6	4.9	7.2	16
18	15	17	16	5.8	26	62	82	65	6.2	4.5	6.2	15
19	11	16	15	5.0	25	62	75	59	5.4	4.7	5.4	15
20	9.6	17	14	5.8	25	64	76	52	5.4	5.4	4.9	14
21	8.2	19	13	7.1	26	58	77	46	5.2	4.9	4.5	13
22	7.8	19	13	9.0	25	53	69	42	5.2	4.7	3.7	12
23	8.0	22	14	9.5	26	48	62	39	5.2	4.2	3.4	11
24	7.2	33	17	9.6	26	47	51	37	4.9	3.5	3.1	10
25	7.2	29	16	9.7	25	42	42	33	6.2	3.4	2.8	8.9
26	4.6	23	19	11	23	40	42	26	11	3.4	2.5	8.5
27	4.1	19	16	12	27	39	40	24	13	2.9	2.9	7.9
28	41	17	13	5.2	35	39	42	27	14	2.8	7.9	7.2
29	54	15	12	12	------	39	45	22	14	2.9	8.9	7.2
30	25	15	12	13	------	42	49	17	13	4.2	9.6	6.2
31	15	------	11	11	------	45	------	15	------	7.6	8.9	------
TOTAL	365.0	472.6	486	346.0	528.4	1,316	2,501	1,589	151.79	268.3	279.1	289.0
MEAN	11.8	15.8	15.7	11.2	18.9	42.5	83.4	51.3	5.06	8.65	9.00	9.63
MAX	54	33	24	16	35	64	132	77	14	21	17	16
MIN	2.6	6.1	11	5.0	5.3	26	40	15	.17	2.8	2.5	4.0

CAL YR 1970 TOTAL 12,043.48 MEAN 33.0 MAX 270 MIN .67
WTR YR 1971 TOTAL 8,592.19 MEAN 23.5 MAX 132 MIN .17

01165500 Moss Brook at Wendell Depot, Mass.

LOCATION.--Lat 42°36'10", long 72°21'36", Franklin County, on left bank 0.2 mile upstream from mouth, 0.2 mile north of Wendell Depot, and 2.5 miles west of Orange.

DRAINAGE AREA.--12.3 sq mi.

PERIOD OF RECORD.--June to October 1909, April to August 1910, June 1916 to current year. Published as "at Wendell" 1909-10.

GAGE.--Water-stage recorder. Crest-stage gage since July 11, 1958. Datum of gage is 508.9 ft above mean sea level. Prior to April 1910, nonrecording gage at site 1,200 ft downstream at different datum. April to August 1910, nonrecording gage and sharp-crested weir at site 300 ft downstream at different datum. June 1916 to Dec. 8, 1965, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--55 years (1916-71), 19.7 cfs (21.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 115 cfs Apr. 4 (gage height, 2.91 ft); minimum, 1.0 cfs Aug. 26, 27.

Period of record: Maximum discharge, 1,540 cfs Mar. 19, 1936 (gage height, 6.30 ft, from floodmarks), from rating curve extended above 400 cfs on basis of slope-area measurements at gage heights 5.62 and 6.30 ft; minimum, 0.2 cfs Sept. 4, 5, 1929.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 821: 1936(M). WSP 891: Drainage area. WSP 1051: 1917, 1919-24, 1929(m). WSP 1231: 1917-21(M), 1922, 1923(M), 1924-26, 1927-28(M), 1929, 1930-35(M), 1939(M), 1941(M), 1944(M), 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.6	11	7.0	7.3	23	27	32	12	7.3	15	3.9
2	2.8	3.4	10	7.0	6.9	21	32	26	8.5	19	9.8	2.5
3	3.0	3.4	9.6	7.0	6.4	20	76	26	5.3	11	7.3	2.2
4	5.6	3.0	17	7.0	6.2	19	108	53	10	6.1	9.5	2.1
5	5.1	9.9	21	7.6	6.2	18	93	58	8.8	4.5	7.3	1.9
6	4.1	15	18	8.8	6.2	17	64	40	7.5	3.6	4.8	1.8
7	3.6	11	15	11	6.4	16	54	31	6.3	3.5	3.6	1.8
8	3.2	8.0	12	10	6.6	15	53	26	7.1	3.0	2.9	1.5
9	2.5	6.6	11	8.6	8.0	15	44	31	12	2.5	2.1	1.6
10	2.6	5.6	10	8.0	8.3	15	45	44	8.8	2.1	1.9	1.4
11	2.5	6.1	9.7	7.7	8.2	14	76	39	5.9	2.0	2.0	1.2
12	2.3	7.7	9.4	7.5	8.2	14	97	30	5.1	2.2	9.3	8.8
13	2.1	8.0	9.0	7.3	8.8	13	103	32	4.6	1.9	5.7	6.8
14	2.2	7.5	8.6	7.1	12	13	109	56	9.7	1.9	3.5	7.3
15	3.4	9.0	8.3	7.0	12	14	88	43	4.9	1.9	2.9	7.9
16	9.6	11	8.0	7.0	13	20	63	33	4.0	1.6	2.4	6.9
17	9.3	9.8	7.8	7.0	13	27	51	37	3.4	1.6	1.9	6.7
18	6.4	9.6	8.2	6.7	15	36	46	34	2.9	1.6	1.5	6.1
19	5.1	12	8.4	6.4	16	27	51	28	2.5	2.9	1.4	5.1
20	4.6	15	8.6	6.2	14	26	47	25	2.5	5.7	2.4	3.9
21	7.9	14	8.3	6.0	14	24	65	20	6.1	3.9	1.9	4.7
22	4.2	17	8.0	6.0	13	23	74	19	17	2.6	1.9	4.3
23	6.4	17	7.8	6.0	13	22	64	17	6.9	2.1	1.3	3.6
24	7.9	17	7.8	6.0	13	19	57	15	6.9	1.8	1.7	3.3
25	6.6	19	7.8	6.0	13	18	54	14	6.3	1.8	9.2	3.3
26	5.4	18	7.6	6.8	13	17	31	13	19	1.4	1.1	3.9
27	4.7	9.7	7.5	8.2	16	17	29	13	11	1.7	2.6	4.2
28	4.4	9.6	7.4	6.0	20	16	29	12	7.3	1.6	23	5.9
29	3.9	9.6	7.2	6.0	------	17	27	11	6.6	1.7	20	4.4
30	3.8	10	7.1	9.3	------	20	26	11	5.8	3.0	11	3.9
31	3.7	------	7.0	7.8	------	26	------	10	------	12	6.1	------
TOTAL	137.0	290.3	300.1	235.0	304.7	558	1,720	890	235.1	123.7	177.0	122.0
MEAN	4.42	9.68	9.68	7.58	10.9	18.0	57.3	28.7	7.84	3.99	5.71	4.07
MAX	9.6	19	21	11	20	36	109	58	19	19	23	8.8
MIN	2.1	3.0	7.0	6.0	6.2	13	26	10	2.5	1.4	1.1	1.2
CFSM	.36	.79	.79	.62	.88	1.46	4.66	2.33	.64	.32	.46	.33
IN.	.42	.88	.91	.71	.92	1.69	5.20	2.69	.71	.37	.54	.37

CAL YR 1970 TOTAL 7,319.0 MEAN 20.1 MAX 269 MIN 1.1 CFSM 1.63 IN 22.13
WTR YR 1971 TOTAL 5,092.9 MEAN 14.0 MAX 109 MIN 1.1 CFSM 1.14 IN 15.40

PEAK DISCHARGE (BASE, 160 CFS).--No peak above base.

01166500 Millers River at Erving, Mass.

LOCATION.--Lat 42°35'51", long 72°26'19", Franklin County, on right bank 75 ft downstream from bridge at Farley, 0.6 mile upstream from Mormon Hollow Brook, 2.4 miles downstream from Erving, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--375 sq mi.

PERIOD OF RECORD.--August 1914 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 380 ft (from topographic map). Prior to June 30, 1915, nonrecording gage, June 30, 1915, to Sept. 20, 1938, water-stage recorder, and Sept. 21 to Dec. 31, 1938, nonrecording gage, at site 2.2 miles upstream at different datum. Jan. 1 to Mar. 29, 1939, nonrecording gage, and Mar. 30, 1939, to Sept. 12, 1941, water-stage recorder, at site 0.4 mile downstream at different datum.

AVERAGE DISCHARGE.--57 years, 607 cfs (21.98 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,850 cfs Apr. 15 (gage height, 5.48 ft); minimum daily, 65 cfs Sept. 8.
Period of record: Maximum discharge, 29,000 cfs Sept. 22, 1938 (gage height, 13.37 ft, from floodmarks, site and datum then in use), mean of two slope-area measurements; practically no flow at times during 1915 and 1916 because of regulation; minimum daily, 8 cfs Sept. 6, 1926.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by powerplants, Lake Monomonac and other reservoirs, and high flow, by Birch Hill Reservoir 22 miles upstream and Tully Reservoir (see p. 209); greater regulation by powerplants prior to 1966.

REVISIONS (WATER YEARS).--WSP 641: 1920(M). WSP 756: Drainage area. WSP 781: 1928(M), 1933(M). WSP 1301: 1915(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	217	318	225	220	680	862	1,190	345	192	360	223
2	148	211	306	220	205	700	969	1,120	308	428	380	175
3	158	201	296	220	190	720	1,730	1,100	311	453	375	138
4	203	190	397	220	185	680	2,060	1,510	320	335	366	84
5	256	285	566	240	185	680	2,040	1,600	323	262	335	81
6	227	352	548	280	190	680	2,440	1,550	285	224	290	117
7	213	308	468	320	195	620	2,470	1,370	268	192	243	96
8	192	258	400	305	200	570	2,380	1,110	268	168	203	65
9	177	233	350	280	240	520	2,180	1,090	288	156	170	71
10	167	210	330	270	250	490	2,020	1,150	279	140	163	114
11	165	228	310	260	245	480	2,020	1,060	182	125	153	109
12	188	220	300	240	240	490	2,240	970	182	125	215	251
13	187	221	290	230	255	480	2,500	999	175	120	237	400
14	194	236	290	220	350	470	2,750	1,230	227	120	197	366
15	252	268	270	210	420	460	2,790	1,280	183	115	168	380
16	321	341	275	205	460	740	2,620	1,230	170	110	143	335
17	305	340	270	200	480	1,050	2,260	1,240	157	110	125	219
18	279	309	265	195	500	1,100	1,870	1,140	144	120	118	344
19	262	273	265	190	500	1,050	1,730	1,030	136	130	116	326
20	243	284	255	185	480	1,000	1,730	922	135	190	118	235
21	228	357	250	180	460	960	1,780	842	157	170	109	212
22	233	373	250	175	450	860	1,710	773	365	140	105	215
23	247	408	260	175	440	801	1,620	723	335	115	96	220
24	281	442	270	175	420	724	1,510	649	274	100	88	191
25	304	415	270	190	400	570	1,420	552	244	90	81	173
26	311	355	260	200	390	540	1,340	469	399	88	75	162
27	286	336	250	250	480	614	1,170	398	362	90	84	143
28	268	277	245	260	600	610	1,050	412	291	92	332	150
29	300	296	230	260	------	667	1,140	401	218	94	405	137
30	259	317	230	250	------	723	1,230	373	195	180	330	152
31	226	------	225	239	------	798	------	362	------	300	290	------
TOTAL	7,232	8,761	9,509	7,069	9,630	21,527	55,631	29,845	7,526	5,274	6,430	5,884
MEAN	233	292	307	228	344	694	1,854	963	251	170	207	196
MAX	321	442	566	320	600	1,100	2,790	1,600	399	453	405	400
MIN	148	190	225	175	185	460	862	362	135	88	75	65
MEAN†	238	300	309	227	346	685	1,873	963	250	170	208	181
CFSM†	.63	.80	.82	.61	.92	1.83	4.99	2.57	.67	.45	.55	.48
IN.†	.73	.89	.95	.70	.96	2.11	5.58	2.96	.74	.52	.64	.54

CAL YR 1970 TOTAL 231,019 MEAN 633 MAX 3,010 MIN 60 MEAN† 633 CFSM† 1.69 IN† 22.93
WTR YR 1971 TOTAL 174,334 MEAN 478 MAX 2,790 MIN 65 MEAN† 478 CFSM† 1.27 IN† 17.32

† Adjusted for change in contents in Birch Hill and Tully Reservoirs.

01167000 Connecticut River at Turners Falls, Mass.

LOCATION.--Lat 42°36'40", long 72°33'20", Franklin County, at dam of Western Massachusetts Electric Co., at Turners Falls, 0.2 mile upstream from Falls River, and at mile 122.2.

DRAINAGE AREA.--7,163 sq mi.

PERIOD OF RECORD.--January 1915 to current year.

AVERAGE DISCHARGE.--56 years, 11,640 cfs (22.07 inches per year), adjusted for storage.

REMARKS.--Discharge computed by adding flow over and through dam, flow for factories through canal that diverts around dam, and flow through power stations 1 and 2 of Western Massachusetts Electric Co. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 209), and other reservoirs (combined usable capacity, about 35 billion cubic feet).

COOPERATION.--Records furnished by Western Massachusetts Electric Co.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,320	1,590	8,500	2,260	4,640	7,610	11,000	44,900	8,600	4,970	937	3,850
2	7,220	2,860	9,600	3,310	3,670	8,790	10,600	45,100	10,100	6,320	3,720	4,120
3	6,740	4,740	8,850	2,000	4,100	9,290	17,300	47,400	8,360	327	4,860	6,740
4	2,170	2,570	10,100	4,880	3,560	10,500	24,600	62,900	7,400	0	7,030	4,300
5	7,430	5,180	11,400	4,360	5,310	8,830	25,700	72,700	6,930	405	7,350	974
6	6,970	4,220	5,640	3,370	3,730	8,930	23,100	69,000	3,320	3,090	7,790	138
7	5,890	2,980	6,710	4,610	729	6,500	22,900	61,400	8,130	1,930	2,870	5,220
8	7,610	2,450	7,680	4,400	5,090	7,140	21,700	55,100	7,290	3,490	1,330	4,410
9	7,220	1,840	6,440	5,250	4,370	7,880	19,200	50,000	6,500	1,950	5,450	5,960
10	4,130	2,970	5,980	4,740	4,520	9,830	22,800	48,000	8,630	190	4,000	2,090
11	2,320	3,660	7,040	4,470	4,260	8,200	24,600	45,600	9,020	426	3,390	1,230
12	4,240	4,680	3,720	4,140	3,880	7,380	29,400	45,200	4,710	2,540	3,230	3,070
13	5,580	5,610	2,370	5,010	3,310	6,720	40,800	44,600	4,830	1,020	1,740	3,640
14	4,940	4,070	6,330	5,580	2,840	6,400	52,500	48,200	5,590	2,440	1,280	5,900
15	4,160	3,160	5,720	4,860	2,110	6,960	53,200	43,100	5,380	2,600	670	4,170
16	5,640	5,200	5,330	3,090	4,910	9,290	47,100	36,800	3,820	2,380	2,450	6,110
17	9,120	7,580	4,220	401	6,610	14,500	40,800	32,000	3,030	1,440	2,000	5,480
18	7,090	5,280	5,070	5,030	8,420	16,000	36,000	26,400	3,870	758	2,400	3,860
19	6,240	7,630	2,820	5,120	6,440	15,600	32,700	26,400	2,220	5,300	1,790	3,250
20	7,640	5,970	3,740	4,260	5,790	16,100	43,200	16,500	138	3,270	1,850	5,650
21	7,080	5,200	6,790	4,700	5,180	16,100	45,600	19,200	5,730	3,310	862	3,670
22	7,130	6,170	6,300	4,360	5,950	15,800	61,600	17,900	3,020	2,550	138	3,680
23	7,190	8,130	4,880	2,140	7,470	15,900	59,900	20,100	2,680	4,640	4,130	4,950
24	6,940	11,500	5,290	920	6,400	13,400	51,200	17,400	4,810	1,010	1,830	4,890
25	6,280	5,820	2,640	4,410	6,140	10,200	42,300	16,100	3,940	90	2,910	943
26	5,640	9,900	5,930	3,350	5,100	10,800	37,800	16,100	6,260	4,330	2,170	213
27	6,970	6,960	6,010	5,540	6,570	7,810	37,600	18,400	3,650	3,790	8,120	3,670
28	6,260	6,140	6,600	4,920	6,070	6,360	40,200	17,400	3,940	790	13,800	2,140
29	6,210	3,790	6,500	3,570	------	8,890	44,000	15,900	2,670	1,730	12,300	2,100
30	4,960	5,960	5,100	3,110	------	5,090	49,400	15,900	4,380	3,570	15,200	2,570
31	2,430	------	4,710	3,010	------	10,000	------	14,600	------	2,030	8,610	------
TOTAL	185,783	157,810	187,900	121,391	137,956	316,820	1,072,800	1,110,400	158,988	72,686	136,207	109,020
MEAN	5,993	5,260	6,061	3,916	4,927	10,220	35,760	35,820	5,300	2,345	4,394	3,634
MAX	9,120	11,500	11,400	5,580	8,420	16,100	61,600	72,700	10,100	6,320	15,200	6,740
MIN	2,170	1,590	2,370	401	729	6,360	10,600	14,600	138	0	138	138
MEAN†	6,004	5,059	5,151	3,233	4,319	8,505	37,100	38,920	5,227	2,266	4,531	3,103
CFSM†	.84	.71	.72	.45	.60	1.19	5.18	5.43	.73	.32	.63	.44
IN.†	.97	.79	.83	.52	.63	1.37	5.78	6.27	.81	.36	.73	.50

CAL YR 1970 TOTAL 4,153,956 MEAN 11,380 MAX 71,200 MIN 130 MEAN† 11,200 CFSM† 1.57 IN† 21.30
WTR YR 1971 TOTAL 3,766,309 MEAN 10,323 MAX 72,700 MIN 0 MEAN† 10,310 CFSM† 1.44 IN† 19.55

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Tully Reservoir on East Branch Tully River listed on p. 209.

01167800 Beaver Brook at Wilmington, Vt.

LOCATION.--Lat 42°51'38", long 72°51'04", Windham County, on right bank 20 ft downstream from bridge on State Highway 9, 1.0 mile southeast of Wilmington, and 1.7 miles upstream from mouth.

DRAINAGE AREA.--6.38 sq mi.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,560 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 13.84 cfs (29.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 275 cfs May 3 (gage height, 4.22 ft), from rating curve extended above 160 cfs; maximum gage height, 4.44 ft Feb. 15 (backwater from ice); minimum discharge, 0.46 cfs July 26, 29, Aug. 22, 23, 25-27.

Period of record: Maximum discharge, 1,990 cfs Nov. 6, 1969 (gage height, 7.51 ft), from rating curve extended above 160 cfs, caused by dam failure; maximum gage height, 8.73 ft Jan. 19, 1965 (ice jam); minimum discharge, 0.06 cfs Aug. 1, 1965.

REMARKS.--Records good except those for winter period, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	3.8	15	5.6	3.6	13	7.0	67	4.5	2.6	5.5	1.6
2	1.4	3.5	12	6.0	3.3	12	11	88	3.7	4.2	2.6	1.3
3	3.2	3.5	10	5.6	3.1	11	36	154	4.2	1.4	2.6	1.1
4	6.5	3.2	67	5.8	3.1	11	37	121	4.2	.95	3.7	.95
5	3.8	3.5	36	12	3.3	11	29	103	3.4	.85	2.3	.85
6	2.9	3.5	20	13	3.5	11	27	92	2.6	.95	1.4	.95
7	2.7	2.9	15	8.2	3.3	11	24	86	2.3	.95	1.2	.85
8	2.4	2.7	11	8.0	3.5	10	20	87	2.1	.67	.85	.76
9	2.1	2.4	13	7.2	3.8	10	21	136	2.3	.67	.76	.67
10	1.8	2.7	12	8.2	3.5	9.9	24	102	1.8	.59	.67	.59
11	1.6	6.5	10	7.4	3.3	9.9	35	77	1.4	.52	1.2	.59
12	1.6	5.9	9.7	6.5	3.5	9.0	57	65	1.3	.52	2.1	13
13	1.6	5.4	9.4	5.4	5.5	8.5	91	139	1.2	.52	1.2	13
14	1.8	5.4	9.2	5.8	14	9.0	93	87	1.2	.76	.85	14
15	6.5	9.7	7.6	6.5	15	10	58	52	1.1	.67	.67	15
16	9.2	16	6.4	5.6	9.4	22	43	47	1.1	.67	.59	11
17	5.4	10	6.9	5.4	7.8	18	39	38	.85	.67	.59	13
18	3.2	7.5	8.5	5.0	7.0	14	46	24	.85	.59	.59	9.2
19	3.2	16	7.8	4.7	7.0	12	53	23	.67	2.3	.59	6.2
20	2.7	28	10	4.6	7.2	12	141	20	.67	3.9	.59	4.9
21	2.7	39	8.5	4.5	7.0	11	101	19	.76	1.4	.59	6.0
22	9.7	22	6.8	4.6	6.5	10	86	23	1.2	.95	.46	4.5
23	27	43	7.6	4.5	6.5	9.5	73	16	.95	.76	.52	3.6
24	16	23	7.0	4.5	6.5	9.0	76	13	.76	.59	.52	3.1
25	9.7	15	7.0	4.5	6.5	8.5	68	9.7	1.8	.59	.52	2.7
26	7.5	12	6.8	5.0	6.5	8.3	90	7.8	4.5	.52	.46	2.4
27	6.5	10	6.6	4.8	14	8.1	53	7.4	1.6	.67	.76	2.3
28	4.8	10	6.4	5.0	17	7.8	61	6.4	1.1	.52	70	2.1
29	4.8	10	6.0	4.6	------	7.5	83	5.9	.95	.85	16	2.0
30	4.0	20	5.8	4.3	------	7.5	66	5.0	.76	4.5	4.5	1.8
31	3.8	------	5.4	3.9	------	7.0	------	5.9	------	12	2.3	------
TOTAL	161.7	346.1	370.4	186.7	184.2	328.5	1,649.0	1,727.1	55.82	48.30	127.18	140.01
MEAN	5.22	11.5	11.9	6.02	6.58	10.6	55.0	55.7	1.86	1.56	4.10	4.67
MAX	27	43	67	13	17	22	141	154	4.5	12	70	15
MIN	1.4	2.4	5.4	3.9	3.1	7.0	7.0	5.0	.67	.52	.46	.59
CFSM	.82	1.80	1.87	.94	1.03	1.66	8.62	8.73	.29	.24	.64	.73
IN.	.94	2.02	2.16	1.09	1.07	1.92	9.61	10.07	.33	.28	.74	.82

CAL YR 1970 TOTAL 4,827.33 MEAN 13.2 MAX 190 MIN .16 CFSM 2.07 IN 28.15

WTR YR 1971 TOTAL 5,325.01 MEAN 14.6 MAX 154 MIN .46 CFSM 2.29 IN 31.05

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0100	3.60	167	5-9	2015	3.60	167
4-20	1745	4.20	270	5-13	1430	4.21	273
5-3	2000	4.22	275	8-28	1100	4.19	264

01168500 Deerfield River at Charlemont, Mass.

LOCATION.--Lat 42°37'33", long 72°51'20", Franklin County, on left bank 1 mile downstream from Charlemont, 2.5 miles downstream from Chickley River, and at mile 24.5.

DRAINAGE AREA.--362 sq mi.

PERIOD OF RECORD.--June 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 517.36 ft above mean sea level.

AVERAGE DISCHARGE.--58 years, 876 cfs (32.86 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,180 cfs Aug. 28 (gage height, 6.52 ft); minimum daily, 77 cfs Aug. 25.
Period of record: Maximum discharge, 56,300 cfs Sept. 21, 1938 (gage height, 20.17 ft, from floodmarks), from rating curve extended above 31,000 cfs on basis of slope-area and contracted-opening measurements at gage heights 17.75 and 20.17 ft; minimum daily, 5 cfs June 17, 1921.

REMARKS.--Records good. Flow regulated by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 209), and by several powerplants above station.

REVISIONS (WATER YEARS).--WSP 781: 1915(M). WSP 1301: 1918(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	311	1,090	430	600	740	814	2,610	766	623	256	446
2	640	594	1,080	279	800	871	850	2,490	288	1,190	709	476
3	372	741	1,060	334	650	934	1,270	3,540	289	238	281	459
4	249	713	1,340	760	780	961	1,060	4,870	150	94	223	202
5	887	720	1,040	866	520	926	1,120	3,260	477	158	213	87
6	645	674	807	961	580	473	1,330	3,210	172	306	175	103
7	688	690	809	1,050	120	224	1,270	2,500	406	161	145	425
8	728	315	1,030	1,040	600	651	1,190	2,530	563	168	116	574
9	664	471	1,050	805	640	1,040	1,000	3,100	449	215	161	375
10	499	615	1,050	354	640	1,040	1,330	3,300	368	119	177	468
11	277	584	1,030	646	720	1,040	1,450	3,500	371	135	221	156
12	467	732	938	1,020	850	1,040	1,920	3,280	221	240	443	501
13	842	644	437	1,020	320	523	2,980	4,080	170	240	351	704
14	597	467	720	1,020	210	285	3,000	4,060	319	194	176	1,180
15	674	420	1,020	1,020	210	675	2,320	2,890	388	172	190	1,130
16	715	667	1,010	921	810	1,100	1,540	2,220	395	199	399	743
17	402	790	1,040	338	740	1,280	1,430	1,940	124	156	201	893
18	108	1,040	1,090	664	710	1,180	1,540	1,680	186	100	183	362
19	451	1,060	851	989	711	1,150	2,720	1,270	135	328	181	177
20	691	1,160	629	995	511	1,140	3,480	1,210	103	402	205	352
21	638	1,040	610	995	217	1,120	3,260	1,190	719	158	218	619
22	608	818	730	992	813	1,090	2,760	1,120	287	136	146	551
23	919	961	700	680	614	985	2,180	317	304	170	309	587
24	388	1,150	760	455	715	1,080	1,870	604	295	180	202	613
25	371	1,090	880	680	713	904	1,780	786	117	101	77	228
26	696	913	330	970	818	1,070	1,650	809	351	178	195	94
27	672	555	380	900	913	667	1,860	742	128	191	473	421
28	786	774	530	960	614	232	1,890	205	321	203	2,380	513
29	562	747	1,010	900	------	611	3,080	241	326	202	1,310	904
30	606	824	1,000	920	------	785	3,340	301	397	582	489	464
31	249	------	1,010	290	------	684	------	263	------	438	429	------
TOTAL	17,695	22,280	27,011	23,696	16,749	26,481	57,284	64,110	9,588	7,977	11,234	14,407
MEAN	571	743	871	764	598	854	1,909	2,068	320	257	362	480
MAX	919	1,160	1,340	1,050	850	1,280	3,480	4,870	766	1,190	2,380	1,180
MIN	108	311	330	279	120	224	814	205	103	94	77	87
MEAN†	439	595	573	291	437	574	2,725	3,116	227	223	425	307
CFSM†	1.21	1.64	1.58	.80	1.21	1.59	7.53	8.61	.63	.62	1.17	.85
IN.†	1.40	1.83	1.83	.93	1.26	1.83	8.40	9.93	.70	.71	1.35	.95

CAL YR 1970 TOTAL 315,504 MEAN 864 MAX 9,140 MIN 65 MEAN† 816 CFSM† 2.25 IN† 30.62
WTR YR 1971 TOTAL 298,505 MEAN 818 MAX 4,870 MIN 77 MEAN† 824 CFSM† 2.28 IN† 30.90

† Adjusted for change in contents in Somerset and Harriman Reservoirs.

01169000 North River at Shattuckville, Mass.

LOCATION.--Lat 42°38'18", long 72°43'32", Franklin County, on right bank in Shattuckville, 1.2 miles south of Griswoldville and 1.3 miles upstream from mouth.

DRAINAGE AREA.--88.4 sq mi.

PERIOD OF RECORD.--October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 458.36 ft above mean sea level.

AVERAGE DISCHARGE.--32 years, 171 cfs (26.27 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,970 cfs Aug. 28 (gage height, 6.44 ft); minimum, 8.3 cfs Aug. 25, 26; minimum daily, 9.0 cfs Aug. 25.
Period of record: Maximum discharge, 13,200 cfs Oct. 15, 1955 (gage height, 10.37 ft), from rating curve extended above 5,700 cfs on basis of computation of flow over dam at gage height 9.62 ft; minimum daily, 5.1 cfs Oct. 3, 1948.

REMARKS.--Records good except those for winter period, which are fair. Diurnal fluctuation at times caused by mill above station; because storage capacity is small, daily flows are not affected appreciably. Prior to 1950, greater regulation by mill.

REVISIONS (WATER YEARS).--WSP 1111: 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	31	94	56	44	179	144	695	103	36	56	43
2	21	30	77	56	41	150	189	703	88	62	42	34
3	25	29	71	56	37	132	527	1,180	88	41	38	29
4	86	27	241	56	34	119	534	1,310	84	32	53	27
5	51	34	196	64	32	115	453	816	72	27	41	27
6	36	31	125	100	40	116	412	710	65	26	29	24
7	29	28	74	87	41	109	389	580	60	31	24	23
8	26	26	50	70	40	108	321	594	59	27	20	22
9	23	25	61	67	45	100	307	1,170	62	22	17	21
10	21	27	65	65	45	93	480	921	53	20	16	19
11	21	39	52	59	45	96	659	591	47	20	17	18
12	20	47	47	56	48	95	929	478	44	21	42	77
13	20	41	45	52	46	92	1,230	866	42	17	26	75
14	21	36	45	57	90	93	1,240	802	44	17	20	115
15	31	61	45	59	140	96	804	473	39	17	17	125
16	84	106	46	56	110	167	642	398	37	16	16	86
17	48	74	54	52	100	211	545	386	35	15	14	103
18	36	57	74	48	99	170	632	307	32	17	13	84
19	31	67	71	46	94	147	1,120	262	31	27	12	63
20	27	194	72	44	90	147	1,580	228	28	64	12	49
21	26	206	68	43	87	138	1,360	210	50	33	11	64
22	40	132	65	42	81	125	1,110	263	74	24	10	58
23	126	167	61	42	83	122	934	203	42	20	11	45
24	97	128	62	42	83	116	867	171	33	18	12	39
25	62	83	68	43	81	111	863	158	41	17	9.0	33
26	50	75	67	47	80	111	644	148	147	19	9.1	31
27	46	76	67	52	132	109	653	137	64	17	13	31
28	41	70	66	49	227	113	677	127	44	14	948	30
29	37	74	64	47	------	125	1,120	117	35	18	244	30
30	34	99	60	45	------	136	782	110	31	86	94	27
31	33	------	56	45	------	136	------	120	------	52	57	------
TOTAL	1,271	2,080	2,309	1,703	2,115	3,877	22,147	15,236	1,674	873	1,943.1	1,452
MEAN	41.0	69.3	74.5	54.9	75.5	125	738	491	55.8	28.2	62.7	48.4
MAX	126	206	241	100	227	211	1,580	1,310	147	86	948	125
MIN	20	25	45	42	32	92	144	110	28	14	9.0	18
CFSM	.46	.78	.84	.62	.85	1.41	8.35	5.55	.63	.32	.71	.55
IN.	.53	.88	.97	.72	.89	1.63	9.32	6.41	.70	.37	.82	.61

CAL YR 1970 TOTAL 59,270.0 MEAN 162 MAX 2,000 MIN 9.0 CFSM 1.83 IN 24.93
WTR YR 1971 TOTAL 56,680.1 MEAN 155 MAX 1,580 MIN 9.0 CFSM 1.76 IN 23.85

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	2000	6.05	2,640				
8-28	1245	6.44	2,970				

01169900 South River near Conway, Mass.

LOCATION.--Lat 42°32'31", long 72°41'39", Franklin County, on left bank at upstream side of Reeds Bridge just off Bardwell Road, 2.2 miles north of Conway, and 2.6 miles upstream from mouth. Prior to Oct. 7, 1970, at downstream side of bridge at same site.

DRAINAGE AREA.--24.0 sq mi.

RECORDS AVAILABLE.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (from topographic map). Prior to Oct. 7, 1970, at downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--5 years, 46.7 cfs (26.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,180 cfs Aug. 28 (gage height, 5.87 ft), from rating curve extended above 390 cfs; minimum, 3.6 cfs Aug. 24-26.

Period of record: Maximum discharge, 3,000 cfs Apr. 23, 1969 (gage height, 7.40 ft), from rating curve extended above 390 cfs; minimum, 3.0 cfs Aug. 21, 22, Sept. 2, 3, 1966.

REMARKS.--Records good except those for winter period and period of doubtful or no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	7.9	20	13	9.8	50	55	117	38	15	17	10
2	6.0	7.9	18	15	9.0	40	90	107	35	23	14	9.3
3	6.5	7.9	16	15	9.5	32	241	173	38	14	17	8.5
4	11	7.9	55	15	10	33	174	224	33	11	24	8.0
5	7.0	34	32	30	11	40	139	120	28	10	14	6.9
6	6.2	21	26	35	13	36	124	97	25	9.1	8.9	6.5
7	6.2	14	21	25	11	33	126	82	23	10	6.5	6.5
8	6.2	12	16	23	11	30	101	89	30	8.6	6.0	6.5
9	6.0	11	17	19	16	29	117	221	33	7.6	5.4	6.5
10	5.7	11	19	21	15	27	203	205	22	7.0	4.9	6.2
11	5.7	16	17	18	11	26	237	116	20	7.0	4.9	6.0
12	5.7	16	15	16	10	25	287	103	18	6.5	9.9	14
13	6.0	14	14	14	14	24	385	213	16	6.3	5.7	19
14	6.0	13	14	15	35	24	290	159	16	6.5	4.9	34
15	9.9	25	14	16	40	27	206	109	15	6.2	4.6	24
16	21	30	15	14	30	50	165	112	14	5.9	4.6	16
17	11	21	17	13	23	60	155	124	15	6.1	4.3	35
18	8.4	16	20	12	25	48	174	86	14	6.2	4.1	21
19	8.4	21	20	11	24	41	288	85	13	11	3.7	16
20	7.0	34	19	10	25	40	295	75	12	15	7.5	12
21	6.5	47	17	11	27	37	254	63	12	8.0	5.7	18
22	12	28	16	12	23	35	217	74	13	6.5	5.2	14
23	34	31	18	12	25	35	196	58	11	6.1	4.6	12
24	25	24	18	11	25	34	168	53	9.9	5.8	4.1	11
25	15	19	18	11	24	34	150	51	20	5.7	3.6	9.6
26	12	18	17	13	24	34	126	50	60	5.6	3.7	9.0
27	11	17	16	19	60	34	117	52	19	5.3	8.0	8.9
28	9.4	17	15	15	60	35	117	54	16	4.9	226	8.9
29	8.9	17	15	14	------	41	219	45	13	5.9	35	8.9
30	8.4	22	14	14	------	49	139	40	11	23	19	8.0
31	8.4	------	14	11	------	50	------	42	------	18	13	------
TOTAL	306.5	590.6	503	493	620.3	1,133	5,553	3,199	640.9	288.0	499.0	380.2
MEAN	9.89	19.7	16.2	15.9	22.2	36.5	185	103	21.4	9.29	16.1	12.7
MAX	34	47	55	35	60	60	385	224	60	23	226	35
MIN	5.7	7.9	14	10	9.0	24	55	40	9.9	4.9	3.6	6.0
CFSM	.41	.82	.68	.66	.93	1.52	7.71	4.29	.89	.39	.67	.53
IN.	.48	.92	.78	.76	.96	1.76	8.61	4.96	.99	.44	.77	.59

CAL YR 1970 TOTAL 16,801.8 MEAN 46.0 MAX 555 MIN 4.6 CFSM 1.92 IN 26.04
WTR YR 1971 TOTAL 14,276.7 MEAN 39.1 MAX 385 MIN 3.6 CFSM 1.63 IN 22.13

PEAK DISCHARGE (BASE, 660 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	1745	5.21	751				
8-28	1200	5.87	1,180				

NOTE.--Doubtful or no gage-height record May 12 to June 16.

01170000 Deerfield River near West Deerfield, Mass.

LOCATION.--Lat 42°32'09", long 72°39'14", Franklin County, on right bank 0.4 mile downstream from South River, 1.2 miles west of West Deerfield, 2.5 miles west of Deerfield, and 9.2 miles upstream from mouth.

DRAINAGE AREA.--558 sq mi.

PERIOD OF RECORD.--March to November 1904, January 1905, March to December 1905, October 1940 to current year. Published as "at Deerfield" 1904-5.

GAGE.--Water-stage recorder. Altitude of gage is 155 ft (from topographic map). Prior to Dec. 16, 1905, nonrecording gage at site 1.5 miles downstream at different datum.

AVERAGE DISCHARGE.--31 years (1940-71), 1,225 cfs (29.81 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 10,400 cfs Aug. 28 (gage height, 6.95 ft); minimum daily, 93 cfs July 8.
Period of record: Maximum discharge, 48,500 cfs Dec. 31, 1948 (gage height, 15.43 ft); minimum daily, 28 cfs July 29, 1962.

REMARKS.--Records good. Flow regulated since 1913 by Somerset Reservoir, since 1924 by Harriman Reservoir (see p. 209), and by several powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	660	287	1,320	677	908	1,090	1,230	3,590	972	862	388	485
2	751	550	1,220	425	1,110	1,200	1,420	3,300	513	1,380	778	563
3	446	787	1,210	394	810	1,200	2,410	4,420	486	385	492	524
4	443	788	1,570	769	996	1,260	2,390	6,750	402	171	365	307
5	759	772	1,520	977	653	1,150	2,150	4,220	598	251	144	208
6	797	826	1,010	1,150	822	897	2,220	4,200	358	386	248	158
7	702	695	998	1,240	350	501	2,190	3,300	487	261	242	348
8	788	518	1,090	1,110	640	651	1,870	3,300	702	93	242	744
9	738	400	1,230	1,060	834	1,340	1,780	4,490	742	367	215	472
10	692	672	1,190	509	756	1,250	2,350	4,820	482	195	265	493
11	198	760	1,170	672	862	1,270	2,730	4,350	471	139	386	308
12	485	601	1,120	1,110	987	1,270	3,410	3,900	472	231	378	854
13	808	762	633	1,130	573	813	4,910	4,900	299	332	443	767
14	737	718	654	1,160	436	527	5,290	5,440	301	239	350	1,380
15	749	547	1,120	1,090	560	779	3,730	3,650	479	199	203	1,420
16	823	742	1,170	1,020	957	1,460	2,860	2,090	423	294	372	763
17	620	917	1,160	520	981	1,790	2,300	2,750	379	233	316	1,200
18	114	1,230	1,130	620	939	1,700	2,690	2,230	117	180	273	645
19	371	1,200	964	1,100	963	1,370	4,020	1,860	195	408	233	277
20	741	1,320	893	1,150	748	1,570	5,560	1,690	227	531	274	405
21	785	1,470	715	1,100	524	1,420	5,420	1,600	637	170	238	695
22	703	939	893	1,150	691	1,440	4,540	1,750	500	190	167	775
23	1,030	1,290	837	757	827	1,220	3,710	848	354	210	342	716
24	809	1,390	921	543	970	1,380	3,120	640	457	180	198	641
25	464	1,270	1,050	660	884	1,130	3,210	1,130	270	150	218	302
26	627	1,120	449	1,100	937	1,340	2,550	1,100	676	120	241	144
27	859	515	584	934	1,040	1,120	2,750	1,010	256	230	573	453
28	759	864	544	1,100	901	429	2,790	558	509	110	3,070	632
29	722	936	1,190	1,070	--------	755	4,330	452	431	330	2,020	591
30	600	900	1,100	623	--------	1,140	4,390	598	505	827	777	583
31	480	--------	1,120	416	--------	1,050	--------	516	--------	668	420	--------
TOTAL	20,260	25,706	31,775	27,416	22,667	35,512	94,160	86,330	13,606	10,676	15,671	18,301
MEAN	654	857	1,025	884	810	1,146	3,139	2,785	454	344	506	610
MAX	1,030	1,470	1,570	1,240	1,110	1,790	5,560	6,750	972	1,380	3,070	1,420
MIN	114	287	449	394	350	429	1,230	452	117	93	144	144
MEAN‡	522	712	727	411	570	863	2,956	3,032	357	306	566	427
CFSM‡	.94	1.28	1.30	.74	1.04	1.55	5.29	6.07	.64	.56	1.02	.77
IN.‡	1.08	1.42	1.50	.85	1.08	1.79	5.91	7.00	.71	.63	1.17	.85

CAL YR 1970 TOTAL 475,692 MEAN 1,303 MAX 8,850 MIN 86 MEAN‡ 1,118 CFSM‡ 2.00 IN‡ 27.20
WTR YR 1971 TOTAL 405,526 MEAN 1,111 MAX 6,750 MIN 93 MEAN‡ 1,106 CFSM‡ 1.98 IN‡ 26.92

‡ Adjusted for change in contents in Somerset and Harriman Reservoirs.

01170100 Green River near Colrain, Mass.

LOCATION.--Lat 42°42'12", long 72°40'16", Franklin County, on right bank 0.5 mile upstream from bridge on West Leyden Road and 2.5 miles northeast of Colrain.

DRAINAGE AREA.--41.4 sq mi.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 435 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 1,450 cfs Aug. 28 (gage height, 5.47 ft), from rating curve extended above 800 cfs; minimum, 4.5 cfs Aug. 25-27.

Period of record: Maximum discharge, 3,200 cfs (revised) Apr. 23, 1969 (gage height, 7.20 ft), from rating curve extended above 410 cfs; minimum, 1.9 cfs Aug. 1, 1968.

Revisions.--Figures of maximum discharge for the water years 1968 and 1969 have been revised to 2,400 cfs Apr. 25, 1968 (gage height, 6.49 ft) and 3,200 cfs Apr. 23, 1969 (gage height, 7.20 ft), superseding figures published in WRD Mass., N.H., R.I., Vt., 1968 and 1969.

REMARKS.--Records good except those for winter period, which are fair.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for high-water periods in water year 1969, superseding figures published in WRD Mass., N.H., R.I., Vt., 1969 are given herewith:

Date	Discharge	Date	Discharge	Date	Discharge
1969		1969-Con.		1969-Con.	
Apr. 5	460	Apr. 13	451	Apr. 22	658
6	599	14	475	23	1,270
7	511	15	503	24	496
8	511	16	538	25	345
9	480	17	560		
10	784	18	455	July 29	1,020
11	724	19	736	30	491
12	506	20	394		

Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
April 1969	13,273	1,270	121	442	10.7	11.93
July 1969	2,799	1,020	18	90.3	2.18	2.52
WAT YR 1969	37,373.4	1,270	6.5	102	2.46	33.58
CAL YR 1969	41,492	1,270	13	114	2.75	37.28

Revised peak discharge.--1969: Nov. 29 (0830) 605 cfs (4.24 ft); Dec. 4 (2215) 1,250 cfs (5.23 ft); Apr. 10 (2130) 1,600 cfs (5.66 ft); Apr. 19 (0615) 1,590 cfs (5.64 ft); Apr. 23 (0230) 3,200 cfs (7.20 ft); June 15 (1830) 2,480 cfs (6.56 ft); July 29 (0615) 3,100 cfs (7.12 ft); Aug. 5 (0715) 778 cfs (4.53 ft).

01170100 Green River near Colrain, Mass.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	15	43	27	20	82	56	354	50	17	27	16
2	10	15	37	28	19	60	73	364	45	24	18	13
3	12	14	33	29	17	54	229	524	45	18	17	11
4	39	13	120	29	16	52	234	769	45	14	24	10
5	22	16	78	32	16	61	193	439	39	13	19	9.5
6	15	15	56	45	17	55	171	377	35	12	13	8.4
7	13	13	40	29	18	50	160	313	33	14	11	8.4
8	12	13	23	32	19	51	130	303	32	11	9.3	8.4
9	11	13	26	30	24	47	129	520	31	10	8.2	8.4
10	10	13	30	32	23	44	223	434	29	9.3	7.4	7.5
11	10	17	24	31	20	45	312	302	26	8.5	7.8	7.1
12	10	21	22	29	20	44	412	242	25	8.5	23	29
13	9.8	19	21	26	25	44	533	424	24	8.1	13	32
14	10	17	21	28	50	43	529	389	24	7.8	9.9	37
15	13	27	21	29	70	42	391	237	22	9.7	8.3	44
16	38	41	21	27	65	63	314	198	25	9.2	7.6	29
17	23	32	25	25	50	81	273	191	25	8.7	6.7	35
18	17	25	35	24	38	61	313	148	19	10	6.4	28
19	15	32	35	23	33	56	512	125	17	16	5.8	23
20	13	59	33	22	32	56	646	107	16	32	5.5	18
21	13	80	30	21	31	55	575	98	19	15	5.5	22
22	16	53	28	23	30	52	495	117	28	11	5.3	20
23	46	66	32	23	31	50	438	91	19	9.4	5.3	16
24	41	53	31	22	32	47	423	80	17	8.4	4.9	13
25	29	41	31	21	34	50	411	74	18	8.1	4.6	12
26	24	44	31	22	37	49	325	70	53	7.8	4.5	11
27	21	34	29	26	65	47	335	65	26	7.5	7.2	11
28	19	32	29	22	130	48	355	61	19	7.3	403	11
29	17	33	28	22	------	51	488	56	16	9.1	94	11
30	16	44	28	22	------	54	384	56	15	41	35	11
31	16	------	27	21	------	54	------	59	------	25	22	------
TOTAL	571.8	910	1,068	822	982	1,648	10,062	7,587	837	410.4	839.2	520.7
MEAN	18.4	30.3	34.5	26.5	35.1	53.2	335	245	27.9	13.2	27.1	17.4
MAX	46	80	120	45	130	82	646	769	53	41	403	44
MIN	9.8	13	21	21	16	42	56	56	15	7.3	4.5	7.1
CFSM	.44	.73	.83	.64	.85	1.29	8.09	5.92	.67	.32	.65	.42
IN.	.51	.82	.96	.74	.88	1.48	9.04	6.82	.75	.37	.75	.47

CAL YR 1970 TOTAL 26,848.6 MEAN 73.6 MAX 736 MIN 4.5 CFSM 1.78 IN 24.12
WTR YR 1971 TOTAL 26,258.1 MEAN 71.9 MAX 769 MIN 4.5 CFSM 1.74 IN 23.59

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	1900	4.70	880				
5-4	0715	5.17	1,210				
8-28	1215	5.47	1,450				

01170500 Connecticut River at Montague City, Mass.

LOCATION.--Lat 42°34'48", long 72°34'30", Franklin County, on left bank 75 ft downstream from Penn Central Railroad bridge at Montague City, 1,000 ft downstream from Deerfield River, and at mile 119.0.

DRAINAGE AREA.--7,865 sq mi.

PERIOD OF RECORD.--March 1904 to current year. Prior to October 1929, published as "at Sunderland." Records published for both sites October 1929 to September 1932.

GAGE.--Water-stage recorder. Datum of gage is 99.87 ft above mean sea level. Prior to Oct. 1, 1917, nonrecording gage; Oct. 1, 1917, to Oct. 8, 1921, water-stage recorder used for low stages, nonrecording gage otherwise; and Oct. 9, 1921, to Sept. 30, 1932, water-stage recorder, at site 9 miles downstream at datum 1.00 ft lower. Since Oct. 1, 1929, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--67 years, 13,460 cfs (23.24 inches per year), adjusted for storage since October 1923.

EXTREMES.--Current year: Maximum discharge, 76,400 cfs May 5 (gage height, 27.50 ft); minimum daily, 305 cfs July 4.
Period of record: Maximum discharge, 236,000 cfs Mar. 19, 1936 (gage height, 49.2 ft, from floodmarks); minimum daily, 215 cfs Aug. 31, Sept. 1, 1958.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs (see p. 209), and other reservoirs (combined usable capacity, about 42.2 billion cubic feet).

REVISIONS (WATER YEARS).--WSP 471: 1904-17. WSP 741: 1930-32. WSP 781: 1928(M). WSP 891: Drainage area. WSP 1051: 1905, 1909-10, 1912-14, 1920, 1922-23, 1925-26, 1928, drainage area at Sunderland. WSP 1301: 1905(M), 1914-19(M), 1930-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,120	2,060	10,500	3,100	5,800	8,200	12,900	47,700	10,800	6,200	1,750	5,330
2	8,500	3,290	10,300	3,900	5,100	10,500	12,900	46,300	11,400	8,160	5,150	5,420
3	7,980	6,430	5,520	2,500	5,200	11,500	19,200	49,100	9,760	2,120	5,380	7,460
4	3,230	4,140	11,000	5,700	4,900	11,500	25,200	64,300	8,320	305	8,030	5,930
5	7,840	5,310	14,400	5,900	6,200	11,000	28,900	74,400	7,940	716	8,580	1,390
6	8,430	5,290	7,600	4,800	4,900	10,500	27,400	70,800	4,170	3,830	8,690	610
7	7,900	4,080	7,670	5,600	1,200	7,600	26,500	62,900	9,000	2,650	4,090	5,870
8	9,200	3,330	5,670	6,200	5,400	8,200	25,600	55,700	8,980	3,950	1,740	5,600
9	8,310	2,120	8,520	6,800	6,200	9,880	21,500	52,000	7,580	2,560	6,020	7,000
10	5,650	3,810	7,790	5,600	6,000	12,000	23,800	50,900	9,410	632	5,290	3,390
11	2,930	4,790	6,770	5,400	5,500	10,600	26,800	48,200	9,980	700	4,230	1,930
12	3,930	5,460	5,890	5,600	5,000	9,480	33,800	47,000	5,750	3,020	4,220	4,030
13	6,520	6,800	3,390	6,400	4,100	8,800	42,400	46,800	5,150	1,540	2,680	5,170
14	5,680	5,510	7,420	7,000	3,500	7,510	53,300	51,700	6,380	3,060	1,770	7,140
15	5,240	3,880	8,000	6,200	2,800	8,030	56,600	45,600	6,300	3,130	1,200	6,320
16	6,860	6,060	6,600	4,300	6,200	11,500	47,800	38,600	4,880	2,990	3,180	7,280
17	8,500	9,060	6,000	1,000	8,000	16,500	39,500	34,000	4,060	2,040	2,790	7,700
18	7,740	7,800	6,500	6,600	10,000	18,100	36,100	27,800	4,340	1,070	3,230	5,370
19	6,160	9,090	4,500	6,600	8,000	16,700	34,700	27,700	2,820	5,570	2,500	3,590
20	8,380	7,740	4,800	5,800	6,800	17,200	46,300	19,100	569	4,920	2,480	6,920
21	8,070	7,590	7,400	6,000	6,000	17,100	56,900	20,100	6,340	4,080	1,340	5,010
22	7,800	7,040	8,000	6,000	7,200	16,500	65,700	18,800	4,660	3,270	507	4,940
23	8,280	10,500	6,000	3,000	8,800	16,300	64,700	20,600	3,440	5,160	4,710	5,730
24	7,040	13,200	6,500	1,600	7,800	14,200	58,200	18,900	5,640	1,680	2,500	6,440
25	7,060	11,400	4,000	5,400	7,400	12,300	51,200	17,100	4,580	431	3,680	2,040
26	6,430	11,400	6,600	4,800	6,400	13,200	45,700	16,900	7,520	4,880	2,850	780
27	8,850	7,520	7,000	7,000	8,500	10,100	43,100	19,900	4,770	4,860	8,090	4,100
28	8,420	7,710	7,500	6,000	7,500	7,530	42,800	18,400	4,840	1,480	17,500	3,340
29	8,350	5,140	8,200	5,000	------	10,500	45,800	16,000	3,570	2,290	15,500	3,110
30	6,810	7,620	6,800	4,000	------	11,300	51,500	15,900	5,410	4,970	16,200	3,580
31	4,520	------	6,000	3,600	------	12,000	------	15,000	------	3,260	10,400	------
TOTAL	218,730	195,170	232,840	157,400	170,400	366,330	1,166.8M	1,158.2M	188,359	95,524	166,277	142,520
MEAN	7,056	6,506	7,511	5,077	6,086	11,820	38,890	37,360	6,279	3,081	5,364	4,751
MAX	9,200	13,200	14,400	7,000	10,000	18,100	65,700	74,400	11,400	8,160	17,500	7,700
MIN	2,930	2,060	3,390	1,000	1,200	7,510	12,900	15,000	569	305	507	610
MEAN†	6,978	6,157	6,302	3,922	5,246	9,823	41,040	41,510	6,113	2,968	5,564	4,126
CFSM†	.89	.78	.80	.50	.67	1.25	5.22	5.28	.78	.38	.71	.52
IN.†	1.02	.87	.92	.58	.69	1.44	5.82	6.09	.87	.44	.82	.59

CAL YR 1970 TOTAL 4,712,255 MEAN 12,510 MAX 74,500 MIN 507 MEAN† 12,760 CFSM† 1.62 IN† 22.03
WTR YR 1971 TOTAL 4,258,550 MEAN 11,670 MAX 74,400 MIN 305 MEAN† 11,670 CFSM† 1.48 IN† 20.14

PEAK DISCHARGE (BASE, 61,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-22	1015	25.66	67,200				
5-5	0915	27.50	76,400				

† Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to 2 reservoirs in Deerfield River basin listed on page 209.

01171300 Fort River near Amherst, Mass.

LOCATION.--Lat 42°21'28", long 72°30'17", Hampshire County, on left bank 20 ft upstream from Southeast Street Bridge, 250 ft downstream from Hop Brook, and 1.3 miles southeast of Amherst.

DRAINAGE AREA.--40.6 sq mi, excludes 1.04 sq mi drained by Nourse Brook, flow of which is diverted from basin.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 147 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 56.5 cfs (18.90 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 345 cfs Apr. 4 (gage height, 4.78 ft); minimum, 5.2 cfs Aug. 26.

Period of record: Maximum discharge, 2,030 cfs Apr. 2, 1970 (gage height, 8.70 ft), from rating curve extended above 690 cfs; minimum, 1.9 cfs Sept. 3, 1966.

Floods of March 1936 and September 1938 reached discharges of 2,360 cfs and 1,640 cfs, respectively, by computation of flow over dam 1.2 miles downstream.

REMARKS.--Records good except those for winter period, which are fair. Diversion above station for municipal supply of Amherst. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	20	35	23	23	161	96	59	32	8.9	42	11
2	13	16	31	25	21	161	119	48	25	12	26	8.0
3	15	16	27	24	20	127	278	65	30	10	19	7.7
4	36	19	63	23	19	100	268	150	42	8.0	29	8.0
5	25	42	66	33	22	82	199	113	29	8.3	23	7.5
6	19	44	45	55	24	75	156	75	22	7.0	15	7.0
7	17	32	35	45	23	74	163	59	20	8.0	12	7.0
8	15	26	26	39	28	82	163	55	36	7.0	10	7.7
9	14	20	26	35	32	74	139	105	89	7.7	8.6	8.3
10	14	20	28	34	29	63	154	154	41	7.7	8.0	6.8
11	13	24	32	31	27	57	159	103	27	8.0	8.0	6.6
12	13	29	29	27	27	55	156	75	22	9.0	14	68
13	13	25	30	25	35	56	144	105	20	7.7	11	56
14	13	41	30	26	65	57	129	167	18	9.2	8.9	27
15	17	56	27	27	80	82	105	109	15	9.2	7.7	18
16	34	66	24	25	62	214	90	92	14	8.3	7.5	13
17	24	44	27	22	56	226	82	123	13	7.7	6.8	30
18	21	32	30	20	54	159	74	90	12	9.2	6.4	21
19	20	32	31	19	53	125	69	68	11	13	6.2	15
20	17	38	34	19	54	105	66	57	10	16	8.0	12
21	16	65	34	18	58	100	60	50	11	13	9.5	18
22	18	48	25	18	52	98	57	54	11	9.2	7.3	18
23	25	47	28	20	54	102	51	47	11	8.0	6.4	13
24	30	45	27	22	56	89	42	40	10	7.5	5.7	11
25	24	33	27	22	54	78	42	35	9.2	7.5	5.3	10
26	20	28	27	30	56	72	42	34	33	7.7	5.3	8.9
27	19	27	27	35	111	71	41	36	16	12	13	8.3
28	18	28	25	30	152	74	39	42	11	11	80	8.3
29	17	28	24	26	------	84	71	38	9.5	9.2	55	8.3
30	17	34	24	25	------	100	80	33	8.6	18	22	8.3
31	17	------	23	24	------	100	------	33	------	42	14	------
TOTAL	588	1,025	967	846	1,347	3,103	3,334	2,314	658.3	326.0	500.6	457.7
MEAN	19.0	34.2	31.2	27.3	48.1	100	111	74.6	21.9	10.5	16.1	15.3
MAX	36	66	66	55	152	226	278	167	89	42	80	68
MIN	13	16	23	18	19	55	39	33	8.6	7.0	5.3	6.6
MEAN†	2.01	34.7	32.2	28.3	50.4	102	113	76.8	23.8	11.9	17.2	16.9
CFSM†	.50	.85	.79	.70	1.24	2.51	2.78	1.89	.59	.29	.42	.42
IN.†	.57	.95	.92	.80	1.29	2.89	3.11	2.18	.65	.34	.49	.46

CAL YR 1970 TOTAL 21,761.2 MEAN 59.6 MAX 885 MIN 8.9 MEAN† 60.5 CFSM† 1.49 IN† 20.23
WTR YR 1971 TOTAL 15,466.6 MEAN 42.4 MAX 278 MIN 5.3 MEAN† 43.8 CFSM† 1.08 IN† 14.66

PEAK DISCHARGE (BASE, 500 CFS, REVISED).--No peak above base.

† Adjusted for diversion for municipal supply of Amherst. Diversion records furnished by town of Amherst.

01171500 Mill River at Northampton, Mass.

LOCATION.--Lat 42°19'05", long 72°39'21", Hampshire County, on right bank at Northampton, 3.5 miles upstream from mouth.

DRAINAGE AREA.--52.8 sq mi.

PERIOD OF RECORD.--October 1938 to current year. October 1938 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 140 ft (from topographic map).

AVERAGE DISCHARGE.--33 years, 90.9 cfs (23.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,360 cfs Aug. 28 (gage height, 5.11 ft); minimum, 7.5 cfs July 16.
Period of record: Maximum discharge, 6,300 cfs Aug. 19, 1955 (gage height, 11.78 ft), from rating curve extended above 3,700 cfs on basis of computation of peak flow over dam; minimum, 2.2 cfs Oct. 1, 1950; minimum daily, 4.2 cfs Aug. 21, 23, 24, 1957.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Flow regulated by mill above station prior to 1956. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 921: 1940. WSP 1231: 1940-42(M), 1944-45(M), 1948(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	49	42	36	165	185	179	73	22	37	25
2	20	19	42	45	33	147	229	157	58	30	27	20
3	20	18	38	43	31	125	508	211	71	22	30	18
4	29	18	113	42	30	105	435	305	67	18	46	16
5	22	93	85	60	30	105	343	196	50	15	29	15
6	20	62	61	100	39	105	283	160	44	13	20	14
7	20	37	49	80	37	102	316	142	42	12	15	15
8	18	31	38	66	38	97	276	139	51	10	12	16
9	17	27	45	62	45	87	252	297	125	11	12	16
10	16	26	47	60	35	84	350	350	58	10	11	15
11	16	32	45	54	32	82	390	202	45	10	14	13
12	18	35	43	48	43	80	431	168	37	11	29	53
13	18	32	44	43	50	76	508	276	36	9.5	19	53
14	18	36	44	47	110	78	486	290	35	9.9	13	93
15	22	59	39	50	120	89	350	185	31	9.1	11	78
16	41	84	36	45	84	162	290	170	30	8.6	12	46
17	28	51	44	40	65	159	249	220	28	8.6	11	55
18	21	39	55	37	65	149	255	200	25	8.6	10	43
19	20	42	53	34	65	131	316	165	23	14	9.5	32
20	18	73	49	33	76	127	362	140	22	25	25	27
21	18	127	46	33	82	113	327	120	22	15	26	35
22	25	73	49	34	70	104	276	130	22	12	18	31
23	61	84	55	35	86	106	239	115	21	11	14	25
24	55	67	53	35	84	102	217	105	18	9.9	12	22
25	35	50	49	35	78	93	208	96	18	9.5	11	20
26	29	42	45	45	82	91	179	90	100	11	10	18
27	25	42	47	60	71	97	168	95	37	11	25	19
28	22	41	46	50	190	106	160	105	29	9.9	443	22
29	21	41	45	44	------	137	301	78	22	11	137	22
30	21	50	44	42	------	182	233	67	26	20	53	16
31	19	------	43	39	------	185	------	78	------	30	32	------
TOTAL	751	1,449	1,541	1,483	1,905	3,611	9,122	5,231	1,266	427.6	1,173.5	893
MEAN	24.2	48.3	49.7	47.8	68.0	116	304	169	42.2	13.8	37.9	29.8
MAX	61	127	113	100	190	199	508	350	125	30	443	93
MIN	16	18	36	33	30	76	160	67	18	8.6	9.5	13
CFSM	.46	.91	.94	.91	1.29	2.20	5.76	3.20	.80	.26	.72	.56
IN.	.53	1.02	1.09	1.04	1.34	2.54	6.43	3.69	.89	.30	.83	.63

CAL YR 1970 TOTAL 34,074.0 MEAN 93.4 MAX 992 MIN 9.3 CFSM 1.77 IN 24.01
WTR YR 1971 TOTAL 28,853.1 MEAN 79.0 MAX 508 MIN 8.6 CFSM 1.50 IN 20.33

PEAK DISCHARGE (BASE, 1,250 CFS)

NOTE.--No gage-height record Dec. 25 to Feb. 12.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8-28	1315	5.11	1,360				

01171800 Bassett Brook near Northampton, Mass.

LOCATION.--Lat 42°18'09", long 72°41'16", Hampshire County, on right bank 20 ft upstream from bridge on State Highway 66 and 3 miles southwest of Northampton.

DRAINAGE AREA.--5.56 sq mi.

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 210 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 6.58 cfs (16.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 55 cfs Aug. 28 (gage height, 5.21 ft); minimum, 0.60 cfs Aug. 19.
Period of record: Maximum discharge, 93 cfs July 29, 1969 (gage height, 6.14 ft), from rating curve extended above 52 cfs; minimum, 0.16 cfs Sept. 2, 1963.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage located at station since April 1963 (no winter records). Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	4.7	4.7	4.1	20	24	11	7.1	1.8	1.5	1.3
2	1.2	1.3	4.3	5.0	3.6	18	30	9.5	5.8	1.9	1.5	1.2
3	2.0	1.3	4.2	4.8	3.5	16	48	13	6.5	1.7	1.8	1.1
4	2.2	1.4	8.4	4.7	3.6	13	42	19	6.5	1.6	1.8	1.1
5	2.0	10	6.6	5.8	3.9	12	33	12	5.5	1.5	1.4	1.1
6	1.6	5.7	5.4	9.8	4.5	12	26	10	5.1	1.5	1.2	1.1
7	1.5	3.0	4.4	8.4	4.5	12	32	9.8	4.5	1.4	1.0	1.1
8	1.4	2.8	3.8	7.4	4.5	12	28	11	5.8	2.9	1.0	1.2
9	1.3	2.3	3.3	7.0	5.2	11	23	24	9.5	2.5	.93	1.2
10	1.3	2.2	3.8	6.4	4.2	10	25	22	5.6	1.3	.93	1.0
11	1.3	2.4	3.5	6.0	3.9	10	26	14	4.2	1.3	1.3	.93
12	1.4	2.4	3.8	5.4	4.5	9.7	25	12	4.0	1.3	1.2	15
13	1.4	2.4	3.9	4.7	6.0	9.3	22	21	4.2	1.3	.86	5.9
14	1.5	3.9	3.5	5.0	10	9.4	21	22	4.8	1.6	.83	7.4
15	4.8	7.5	3.3	5.6	15	10	18	14	3.4	1.3	.80	4.3
16	6.8	7.2	3.1	5.0	11	17	16	17	4.4	1.3	.80	2.8
17	3.2	4.3	4.5	4.4	7.6	24	15	19	2.3	1.3	.77	8.3
18	2.6	2.9	6.4	3.8	7.6	22	15	13	2.0	1.2	.77	3.2
19	2.0	4.2	5.6	3.9	7.8	18	13	11	2.0	2.1	.70	2.7
20	1.7	6.6	5.1	3.7	8.7	19	12	10	2.2	1.5	2.0	1.8
21	1.5	13	4.8	3.7	9.8	15	11	10	2.8	1.2	1.3	3.2
22	3.4	8.1	5.6	3.9	9.0	13	11	12	3.0	1.2	.80	2.0
23	4.2	8.0	6.2	4.1	9.4	13	10	9.8	2.3	1.2	1.0	1.9
24	4.3	6.6	6.0	4.4	10	13	10	8.4	2.1	1.1	1.0	1.5
25	3.0	5.4	5.6	4.8	9.7	12	10	7.4	2.7	1.2	1.0	1.4
26	2.3	4.7	5.4	5.6	11	12	9.5	7.7	3.6	1.1	1.0	1.4
27	1.9	5.1	5.3	6.8	15	12	8.6	7.5	2.7	1.4	7.4	1.4
28	1.6	5.0	5.2	4.8	23	13	8.4	8.3	2.2	1.1	32	1.4
29	1.3	4.7	5.0	4.8	------	16	18	7.2	2.0	1.5	9.7	1.4
30	1.3	5.4	5.0	5.2	------	21	14	7.1	1.8	1.8	3.0	1.4
31	1.3	------	4.8	4.8	------	24	------	7.7	------	2.8	1.5	------
TOTAL	68.6	141.1	150.5	164.4	220.6	448.4	604.5	387.4	120.6	47.9	82.79	80.73
MEAN	2.21	4.70	4.85	5.30	7.88	14.5	20.2	12.5	4.02	1.55	2.67	2.69
MAX	6.8	13	8.4	9.8	23	24	48	24	9.5	2.9	32	15
MIN	1.2	1.3	3.1	3.7	3.5	9.3	8.4	7.1	1.8	1.1	.70	.93
CFSM	.40	.85	.87	.95	1.42	2.61	3.63	2.25	.72	.28	.48	.48
IN.	.46	.94	1.01	1.10	1.48	3.00	4.04	2.59	.81	.32	.55	.54

CAL YR 1970 TOTAL 2,877.10 MEAN 7.88 MAX 67 MIN .73 CFSM 1.42 IN 19.25
WTR YR 1971 TOTAL 2,517.52 MEAN 6.90 MAX 48 MIN .70 CFSM 1.24 IN 16.84

PEAK DISCHARGE (BASE, 70 CFS).--No peak above base.

01172500 Ware River near Barre, Mass.

LOCATION.--Lat 42°25'35", long 72°01'30", Worcester County, on left bank 700 ft downstream from Barre Falls Dam, 1.6 miles upstream from Burnshirt River, 4 miles east of Barre, and at mile 33.3.

DRAINAGE AREA.--55.0 sq mi.

PERIOD OF RECORD.--July 1946 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 745 ft (from topographic map).

AVERAGE DISCHARGE.--25 years, 86.1 cfs (21.26 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 463 cfs Apr. 4 (gage height, 4.45 ft); minimum, 5.4 cfs July 17, Aug. 26, 27; minimum daily, 5.5 cfs Aug. 26.

Period of record: Maximum discharge, 1,890 cfs Oct. 16, 1955 (gage height, 6.31 ft), from rating curve extended above 1,100 cfs; minimum, 0.5 cfs Sept. 11, 12, 1963; minimum daily, 0.5 cfs Sept. 11, 1963. Maximum discharge since construction of Barre Falls Reservoir in 1958, 1,050 cfs Apr. 8, 1963 (gage height, 5.41 ft).

REMARKS.--Records good except those for winter period, which are fair. Prior to August 1955, slight regulation at low flow at times by Long Pond. Flow regulated by Barre Falls Reservoir (see p. 209) since 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	17	50	32	35	124	167	135	59	26	41	16
2	6.0	17	48	32	32	127	187	122	52	56	36	12
3	6.3	16	44	34	29	155	346	122	54	48	26	9.9
4	14	16	63	33	25	129	449	160	68	31	28	8.8
5	16	28	77	42	24	120	393	165	61	22	29	7.9
6	14	41	69	65	25	115	324	142	58	18	22	7.2
7	12	40	59	69	27	96	296	122	56	17	16	7.0
8	10	33	55	65	29	94	283	111	53	14	13	6.8
9	10	27	48	60	32	84	254	124	66	12	10	6.5
10	9.8	24	46	55	37	78	260	155	58	11	8.4	6.0
11	9.7	26	42	47	41	78	306	147	49	8.3	14	5.6
12	9.6	31	40	44	44	74	339	129	37	7.3	58	30
13	9.6	30	41	37	50	71	335	133	31	6.3	43	67
14	9.6	43	42	36	68	68	335	204	30	6.7	28	68
15	9.7	55	37	36	75	77	317	195	31	6.5	19	59
16	17	66	36	35	80	140	280	165	34	5.8	14	47
17	22	59	35	33	82	204	245	165	28	5.7	11	46
18	20	50	39	30	80	215	218	155	24	10	8.7	43
19	17	42	43	29	78	195	201	140	22	12	7.6	37
20	14	46	44	28	74	167	195	124	18	17	7.6	24
21	13	74	44	26	70	160	189	116	21	15	7.3	22
22	13	78	40	27	67	145	178	120	59	12	9.1	21
23	23	77	41	27	65	133	165	122	59	9.3	11	17
24	46	75	41	27	64	124	147	111	36	7.8	8.6	15
25	57	61	41	26	62	118	140	99	26	7.0	5.9	12
26	44	49	40	27	60	111	135	91	48	6.8	5.5	11
27	35	46	39	35	71	105	129	84	57	8.0	6.6	9.7
28	28	48	37	41	78	107	120	85	39	15	32	9.2
29	24	48	35	41	------	122	129	78	35	14	50	9.1
30	20	49	34	40	------	145	145	66	33	16	36	8.6
31	18	------	33	39	------	160	------	63	------	26	23	------
TOTAL	563.6	1,312	1,383	1,198	1,504	3,841	7,207	3,950	1,302	477.5	635.3	649.3
MEAN	18.2	43.7	44.6	38.6	53.7	124	240	127	43.4	15.4	20.5	21.6
MAX	57	78	77	69	82	215	449	204	68	56	58	68
MIN	6.0	16	33	26	24	68	120	63	18	5.7	5.5	5.6
MEAN†	18.3	43.8	44.5	38.6	57.4	121	240	127	43.4	15.3	20.5	21.6
CFSM†	.33	.80	.81	.70	1.04	2.20	4.36	2.31	.79	.28	.37	.39
IN.†	.38	.89	.93	.81	1.09	2.54	4.87	2.67	.88	.32	.43	.44

CAL YR 1970 TOTAL 33,632.6 MEAN 92.1 MAX 610 MIN 2.3 MEAN† 92.1 CFSM† 1.67 IN† 22.74
WTR YR 1971 TOTAL 24,022.7 MEAN 65.8 MAX 449 MIN 5.5 MEAN† 65.8 CFSM† 1.20 IN† 16.25

† Adjusted for change in contents in Barre Falls Reservoir.

01173000 Ware River at Coldbrook, Mass.

LOCATION.--Lat 42°23'26", long 72°03'39", Worcester County, on right bank above diversion dam at Ware River intake works at Coldbrook, 2 miles east of South Barre, 2.7 miles downstream from Burnshirt River, and at mile 29.1.

DRAINAGE AREA.--96.8 sq mi.

PERIOD OF RECORD.--January 1928 to current year.

GAGE.--Venturi meters and water-stage recorder. Datum of gage is 5.65 ft below mean sea level. Prior to Feb. 1, 1936, water-stage recorder at site 0.2 mile downstream at datum 631.91 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--43 years, 159 cfs (22.31 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum daily discharge, 891 cfs Apr. 4; minimum daily, 13 cfs Oct. 2, Aug. 26.

Period of record: Maximum discharge, 14,000 cfs Sept. 21, 1938 (gage height, 664.28 ft), by computatión of flow over dam; minimum daily, 1.1 cfs Sept. 19, 1965 (caused by unusual regulation). Maximum daily discharge since construction of Barre Falls Reservoir in 1958, 1,470 cfs Apr. 1, 1962.

REMARKS.--Records good. Figures of discharge include diversion as needed for Boston metropolitan district during period Oct. 15 to June 14 of each year; diversion began in March 1931. Flow regulated by Barre Falls Reservoir 4.3 miles upstream (see p. 209) since 1958.

COOPERATION.--Computations of daily discharge made in cooperation with Water Division, Metropolitan District Commission, which collected gage-height and venturi-meter records.

REVISIONS (WATER YEARS).--WSP 781: Drainage area. WSP 1031: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	29	73	50	59	231	299	227	104	55	92	28
2	13	29	68	54	54	226	425	200	93	101	88	24
3	16	26	65	54	48	199	818	252	104	78	70	21
4	34	27	110	55	45	169	891	348	117	55	71	19
5	32	46	124	79	45	165	712	309	101	39	64	17
6	27	58	100	101	48	159	591	252	93	35	47	17
7	24	55	86	104	49	151	549	212	88	33	35	17
8	21	46	79	94	51	146	486	200	90	28	28	16
9	19	39	75	81	59	139	446	248	112	25	23	16
10	18	36	73	75	64	134	500	280	92	23	19	15
11	18	42	67	72	64	131	596	243	78	21	46	15
12	17	46	64	69	66	124	630	205	65	18	94	70
13	17	48	70	59	81	120	617	295	57	17	62	127
14	17	67	66	57	111	119	616	370	54	18	43	114
15	19	85	57	59	126	128	552	308	54	17	32	93
16	37	117	56	54	134	296	472	282	56	15	26	74
17	38	83	56	55	136	394	409	279	48	17	21	78
18	33	68	70	49	132	302	375	252	42	29	18	69
19	29	64	71	45	129	328	355	219	40	32	16	63
20	25	76	73	41	122	283	345	196	34	43	17	47
21	23	113	69	39	120	258	346	187	54	32	17	48
22	24	109	62	43	116	277	309	207	111	47	16	46
23	41	115	64	45	113	237	272	192	92	36	20	39
24	73	103	64	45	113	185	245	168	64	22	19	35
25	72	81	64	45	108	179	247	150	54	19	15	31
26	62	71	65	53	105	169	237	143	105	18	13	29
27	47	68	62	63	131	164	218	137	93	34	19	28
28	41	68	59	68	173	177	206	142	68	40	50	27
29	35	71	56	68	------	210	250	132	57	35	83	21
30	32	75	54	66	------	261	257	116	54	45	60	19
31	29	------	53	64	------	294	------	112	------	72	29	------
TOTAL	947	1,961	2,175	1,906	2,602	6,355	13,271	6,863	2,274	1,099	1,253	1,263
MEAN	30.5	65.4	70.2	61.5	92.9	205	442	221	75.8	35.5	40.4	42.1
MAX	73	117	124	104	173	394	891	370	117	101	94	127
MIN	13	26	53	39	45	119	206	112	34	15	13	15
MEAN†	30.6	65.4	70.1	61.4	96.6	202	442	221	75.8	35.4	40.4	42.0
CFSM†	.32	.68	.72	.63	1.00	2.09	4.57	2.28	.78	.37	.42	.43
IN.†	.36	.75	.84	.73	1.04	2.41	5.10	2.63	.87	.42	.48	.48

CAL YR 1970 TOTAL 56,895 MEAN 156 MAX 1,080 MIN 11 MEAN† 156 CFSM† 1.61 IN† 21.86
WTR YR 1971 TOTAL 41,969 MEAN 115 MAX 891 MIN 13 MEAN† 115 CFSM† 1.19 IN† 16.13

† Adjusted for change in contents in Barre Falls Reservoir.

01173260 Moose Brook near Barre, Mass.

LOCATION.--Lat 42°23'52", long 72°08'51", Worcester County, on right bank 20 ft upstream from culvert on Hardwick Road and 2.7 miles southwest of Barre.

DRAINAGE AREA.--4.54 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-62. October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 920 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 5.92 cfs (17.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 56 cfs Apr. 3 (gage height, 2.15 ft); maximum gage height, 2.34 ft Feb. 15 (backwater from ice); minimum discharge, 0.26 cfs July 15-17, Sept. 12.

Period of record: Maximum discharge, 135 cfs Mar. 19, 1968 (gage height, 2.75 ft); maximum gage height, 3.65 ft Mar. 7, 1963 (backwater from ice); no flow at times during water years 1963-65, 1968, 1970.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since April 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	1.4	4.3	3.0	2.0	13	17	9.8	3.4	1.9	11	1.8
2	.49	1.4	3.9	3.0	1.6	14	22	8.4	3.0	4.0	9.7	1.2
3	.42	1.4	3.7	3.0	2.0	14	48	8.8	2.9	3.9	8.3	.95
4	1.6	1.4	5.7	3.0	2.3	13	48	17	3.8	2.5	8.3	.77
5	2.2	2.6	7.2	3.5	2.3	11	37	17	3.6	1.8	7.8	.59
6	1.7	3.9	6.0	4.5	2.3	11	30	14	2.9	1.3	6.0	.51
7	1.2	3.7	4.5	5.2	2.3	11	26	11	2.5	1.0	4.4	.51
8	1.0	3.2	3.7	5.0	2.3	10	24	9.2	2.5	.84	3.2	.44
9	.84	2.6	3.2	4.5	2.8	9.5	23	9.2	4.0	.70	2.4	.44
10	.84	2.5	3.2	3.9	3.2	9.5	23	12	3.4	.64	2.1	.37
11	.77	2.6	3.2	3.6	3.2	9.2	25	11	2.5	.58	2.5	.37
12	.77	3.4	2.8	3.5	3.0	8.2	25	9.5	2.0	.46	8.0	3.6
13	.70	3.5	2.8	3.4	5.5	7.7	23	9.8	1.7	.39	6.0	9.7
14	.70	4.5	2.8	3.4	7.5	7.6	22	17	1.5	.38	4.2	8.5
15	.63	5.5	2.8	3.3	10	8.2	19	14	1.3	.37	2.9	7.1
16	3.2	6.7	2.8	3.2	9.5	17	17	11	1.2	.26	2.2	5.0
17	3.0	5.7	[illegible]	3.1	8.8	22	15	11	1.1	.44	1.7	4.2
18	2.5	4.8	3.4	3.0	8.2	20	13	10	.95	1.6	1.5	4.6
19	1.9	3.9	3.4	2.8	7.6	19	11	8.3	.86	1.4	1.2	3.8
20	1.7	4.3	3.4	2.6	7.2	17	11	6.7	.77	2.1	2.1	3.0
21	1.4	6.2	3.4	2.5	7.0	15	9.9	6.0	1.2	1.7	2.5	3.0
22	1.4	6.2	3.2	2.4	6.8	14	9.4	5.8	4.8	1.2	1.7	3.6
23	2.3	6.4	3.2	2.3	6.6	13	8.6	5.8	3.8	.86	1.5	3.0
24	3.9	6.7	3.4	2.3	6.4	12	7.6	5.2	2.5	.68	1.4	2.4
25	3.9	5.5	3.2	2.5	5.8	11	7.4	4.6	2.0	.51	1.1	2.0
26	3.2	4.3	3.1	3.0	5.6	10	7.4	4.6	4.4	.44	.95	1.6
27	2.6	3.9	2.9	3.5	9.0	9.5	7.3	4.2	4.2	1.7	.95	1.5
28	2.2	3.7	2.8	3.3	13	9.8	6.9	4.2	2.7	4.2	4.2	1.3
29	1.9	3.7	2.7	3.0	------	11	8.3	4.0	1.8	2.7	6.9	1.4
30	1.7	4.1	2.7	2.8	------	14	10	3.6	1.6	3.6	4.8	1.3
31	1.6	------	2.7	2.5	------	16	------	3.4	------	6.9	2.9	------
TOTAL	52.89	119.7	110.0	100.6	153.8	387.2	561.8	276.1	74.88	51.05	124.40	78.55
MEAN	1.71	3.99	3.55	3.25	5.49	12.5	18.7	8.91	2.50	1.65	4.01	2.62
MAX	3.9	6.7	7.2	5.2	13	22	48	17	4.8	6.9	11	9.7
MIN	.42	1.4	2.7	2.3	1.6	7.6	6.9	3.4	.77	.26	.95	.37
CFSM	.38	.88	.78	.72	1.21	2.75	4.12	1.96	.55	.36	.88	.58
IN.	.43	.98	.90	.82	1.26	3.17	4.60	2.26	.61	.42	1.02	.64

CAL YR 1970 TOTAL 2,703.79 MEAN 7.41 MAX 71 MIN 0 CFSM 1.63 IN 22.15
WTR YR 1971 TOTAL 2,090.97 MEAN 5.73 MAX 48 MIN .26 CFSM 1.26 IN 17.13

PEAK DISCHARGE (BASE, 60 CFS).--No peak above base.

01173500 Ware River at Gibbs Crossing, Mass.

LOCATION.--Lat 42°14'07", long 72°16'45", Hampshire County, on right bank 0.5 mile upstream from Gibbs Crossing, 1.8 miles upstream from Beaver Brook, 2.5 miles southwest of Ware, and 8.8 miles upstream from mouth.

DRAINAGE AREA.--199 sq mi.

PERIOD OF RECORD.--August 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 379.79 ft above mean sea level. Prior to Mar. 1, 1930, at site 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--59 years, 312 cfs (21.29 inches per year), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 1,100 cfs Apr. 3 (gage height, 3.87 ft); minimum, 41 cfs Sept. 11, 12; minimum daily, 41 cfs Sept. 11.
Period of record: Maximum discharge, 22,700 cfs Sept. 21, 1938 (gage height, 18.2 ft, from floodmarks), from rating curve extended above 4,600 cfs on basis of contracted-opening measurement at gage height 12.83 ft and slope-area measurement at gage height 18.2 ft; minimum, 5.0 cfs Oct. 26, 1914; minimum daily, 6.0 cfs Oct. 4, 1914. Maximum discharge since construction of Barre Falls Reservoir in 1958, 4,000 cfs Mar. 31, 1960 (gage height, 7.03 ft).

REMARKS.--Records good except those for winter period, which are fair. Diversion at times since March 1931 from 97 sq mi in Ware River basin for supply of Boston metropolitan district. (See table below for figures of diversion.) Regulation by Barre Falls Reservoir (see p. 209) since 1958. Flow regulated by mills above station prior to 1967.

REVISIONS (WATER YEARS).--WSP 661: Drainage area. WSP 1031: 1944. WSP 1301: 1914(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	77	161	115	135	461	498	330	224	116	198	81
2	47	76	155	120	125	425	524	311	198	155	205	64
3	52	76	149	120	115	395	986	325	198	161	178	60
4	77	77	209	125	105	360	896	485	239	126	191	55
5	83	103	267	174	105	330	695	431	220	99	171	53
6	76	126	235	224	110	330	571	365	188	87	129	49
7	66	124	198	220	110	320	571	335	174	85	99	47
8	64	116	165	205	120	315	557	316	174	74	81	45
9	61	106	158	181	130	300	531	365	263	66	70	46
10	58	95	155	174	145	295	557	409	228	61	61	45
11	56	103	150	167	150	284	557	365	181	60	72	41
12	56	116	146	161	155	275	531	330	155	60	335	213
13	55	118	146	135	175	263	498	392	137	52	235	350
14	55	161	149	130	250	263	473	564	124	58	137	315
15	58	188	130	135	300	302	443	431	113	55	99	270
16	99	224	125	130	310	500	409	392	108	50	77	200
17	111	220	125	126	310	600	387	420	103	58	66	220
18	92	164	145	115	310	578	370	376	97	97	58	190
19	83	149	149	105	307	505	345	340	92	93	58	175
20	74	155	160	95	293	467	340	320	87	97	60	130
21	70	205	155	90	289	437	335	302	87	92	63	135
22	72	220	150	98	263	398	325	320	158	76	61	130
23	87	231	145	100	267	403	316	299	178	76	58	115
24	129	235	145	105	255	387	302	271	149	72	53	100
25	131	195	140	105	247	360	311	267	121	61	50	90
26	126	161	145	120	245	355	311	267	174	55	49	82
27	108	152	145	140	302	355	302	267	181	53	55	78
28	97	146	135	160	400	370	293	284	149	58	118	74
29	90	149	125	160	------	414	345	263	113	74	174	66
30	83	155	120	155	------	479	360	247	103	92	167	54
31	79	------	120	150	------	498	------	228	------	134	124	------
TOTAL	2,444	4,427	4,8[illegible]	4,340	6,032	12,027	13,939	10,616	4,716	2,543	3,552	3,573
MEAN	78.8	148	155	140	215	388	465	342	157	82.0	115	119
MAX	131	235	267	224	400	600	986	564	263	161	335	350
MIN	47	76	120	90	105	263	293	228	87	50	49	41
(†)	0	0	0	0	+1.55	+73.7	+309	+88.9	0	0	0	0
MEAN‡	78.9	148	155	140	221	459	774	431	157	82.0	115	119
CFSM‡	.40	.74	.78	.70	1.11	2.31	3.89	2.17	.79	.41	.58	.60
IN.‡	.46	.83	.90	.81	1.16	2.66	4.34	2.50	.88	.47	.66	.67

CAL YR 1970 TOTAL 87,796 MEAN 241 MAX 2,280 MIN 37 MEAN‡ 313 CFSM‡ 1.57 IN‡ 21.33
WTR YR 1971 TOTAL 73,015 MEAN 200 MAX 986 MIN 41 MEAN‡ 239 CFSM‡ 1.20 IN‡ 16.33

† Diversion, in cubic feet per second, from 97 sq mi in Ware River basin for supply of Boston metropolitan district; records furnished by Water Division of Metropolitan District Commission.

‡ Adjusted for diversion and for change in contents in Barre Falls Reservoir.

01174000 Hop Brook near New Salem, Mass.

LOCATION.--Lat 42°28'42", long 72°20'05", Franklin County, on right bank 1.5 miles upstream from mouth and 1.5 miles south of New Salem.

DRAINAGE AREA.--3.39 sq mi.

PERIOD OF RECORD.--October 1947 to current year. Monthly discharge only October 1947, published in WSP 1301.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 725 ft (from topographic map).

AVERAGE DISCHARGE.--24 years, 5.65 cfs (22.63 inches per year).

EXTREMES.--Current year: Maximum discharge, 51 cfs Apr. 3 (gage height, 1.96 ft); maximum gage height, 2.18 ft Feb. 14 (backwater from ice); minimum discharge, 0.02 cfs Aug. 18-20, 24-27.

Period of record: Maximum discharge, 289 cfs Oct. 24, 1959 (gage height, 3.17 ft), from rating curve extended above 130 cfs; minimum, 0.004 cfs Aug. 3, 9, 10, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	.62	2.7	2.3	2.1	9.8	11	8.3	3.2	2.3	1.3	.25
2	.62	.66	2.5	2.4	1.9	8.6	19	7.4	2.7	2.6	2.5	.17
3	1.1	.70	2.2	2.3	1.8	7.4	41	14	4.1	1.0	1.7	.14
4	2.6	.66	11	2.4	1.8	7.1	25	24	3.6	.70	2.2	.13
5	.97	8.3	5.1	5.6	2.0	6.1	20	12	2.5	.48	.97	.09
6	.66	3.0	3.8	4.0	2.2	5.6	19	10	2.3	.33	.47	.09
7	.58	1.9	2.8	3.2	2.1	5.6	19	9.2	2.0	.41	.28	.15
8	.51	1.4	2.5	2.7	2.2	5.1	17	9.5	5.1	.20	.21	.25
9	.51	1.2	2.7	2.6	3.5	4.9	17	14	4.9	.18	.14	.41
10	.44	1.3	2.8	2.5	2.7	4.6	24	14	2.4	.16	.08	.17
11	.44	1.8	2.5	2.5	2.4	4.4	25	10	1.9	.14	.08	.11
12	.44	1.8	2.5	2.4	2.5	4.4	24	8.9	1.7	.16	1.5	16
13	.44	1.5	2.6	2.1	3.5	4.2	24	17	1.6	.10	.45	3.4
14	.41	3.2	2.4	2.1	10	4.4	22	15	1.7	.16	.23	2.3
15	1.0	5.4	2.3	2.2	6.3	8.0	18	10	1.4	.11	.15	1.8
16	3.8	4.9	2.1	2.2	4.3	19	16	11	1.3	.08	.10	1.2
17	1.4	2.6	2.5	2.0	3.6	14	14	12	1.1	.10	.06	3.9
18	1.0	2.1	2.6	1.9	3.8	9.5	14	9.2	.90	.19	.03	1.8
19	.87	2.4	2.4	1.8	4.1	8.6	14	8.0	.73	.68	.02	1.3
20	.74	2.8	2.5	1.8	4.4	9.2	12	7.1	.62	.91	.06	1.0
21	.73	6.8	2.3	1.8	4.2	7.7	12	6.6	.63	.43	.07	1.6
22	1.1	3.2	2.2	1.9	3.6	7.1	10	6.8	.85	.42	.06	1.1
23	2.1	6.6	2.3	1.9	3.9	7.1	9.2	5.6	.60	.17	.05	.80
24	1.7	3.6	2.4	1.8	3.6	6.6	8.6	5.1	.54	.10	.03	.58
25	1.2	2.6	2.4	1.9	3.8	6.6	8.9	4.9	1.3	.09	.02	.45
26	.97	2.3	2.4	2.5	3.9	6.3	8.3	4.4	5.8	.11	.02	.45
27	.87	2.4	2.3	4.2	11	6.1	7.4	4.6	1.5	.10	1.9	.46
28	.78	2.4	2.2	3.0	11	6.6	7.1	4.9	.92	.06	9.9	.51
29	.74	2.5	2.2	2.6	-------	8.6	13	3.8	.69	.12	2.2	.51
30	.74	3.6	2.1	2.5	-------	10	10	3.5	.54	.99	.92	.62
31	.70	-------	2.1	2.3	-------	11	-------	3.9	-------	2.9	.47	-------
TOTAL	30.54	84.24	87.4	77.4	112.2	234.2	485.5	284.7	59.12	16.48	28.17	41.54
MEAN	.99	2.81	2.82	2.50	4.01	7.55	16.3	9.18	1.97	.53	.91	1.38
MAX	3.8	8.3	11	5.6	11	19	41	24	5.8	2.9	9.9	16
MIN	.41	.62	2.1	1.8	1.8	4.2	7.1	3.5	.54	.06	.02	.09
CFSM	.29	.83	.83	.74	1.18	2.23	4.81	2.71	.58	.16	.27	.41
IN.	.34	.92	.96	.85	1.23	2.57	5.37	3.12	.65	.18	.31	.46

CAL YR 1970 TOTAL 2,007.21 MEAN 5.50 MAX 86 MIN .02 CFSM 1.62 IN 22.03
WTR YR 1971 TOTAL 1,545.49 MEAN 4.23 MAX 41 MIN .02 CFSM 1.25 IN 16.96

PEAK DISCHARGE (BASE, 100 CFS).--No peak above base.

01174500 East Branch Swift River near Hardwick, Mass.

LOCATION.--Lat 42°23'36", long 72°14'21", Worcester County, on left bank 100 ft above spillway of regulating dam and 4.6 miles northwest of Hardwick.

DRAINAGE AREA.--43.7 sq mi.

PERIOD OF RECORD.--January 1937 to current year. Published as "near Dana" January 1937 to September 1939.

GAGE.--Water-stage recorder. Concrete spillway since Mar. 12, 1940. Datum of gage is 504.70 ft above mean sea level.

AVERAGE DISCHARGE.--34 years, 65.9 cfs (20.48 inches per year).

EXTREMES.--Current year: Maximum discharge, 477 cfs Apr. 4 (gage height, 20.41 ft); minimum, 3.2 cfs July 13, 17.
Period of record: Maximum discharge, 6,780 cfs Sept. 21, 1938, average of slope-area and contracted-opening measurements; maximum gage height, 22.49 ft June 25, 1944; no flow at times during several years.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	13	25	21	24	100	119	100	33	14	79	13
2	7.7	13	24	21	24	100	134	86	29	31	76	10
3	8.4	12	24	21	21	93	360	89	31	31	59	9.2
4	16	12	36	21	19	96	438	143	44	24	62	16
5	16	19	41	29	24	79	334	156	38	18	56	16
6	14	24	41	36	25	65	259	130	29	14	36	13
7	13	24	33	38	24	65	249	104	25	12	25	10
8	12	24	27	36	29	69	212	89	27	10	21	8.4
9	11	21	25	31	33	59	183	107	41	8.4	16	7.7
10	10	19	25	27	33	53	198	126	36	7.7	13	7.0
11	9.2	19	24	25	29	53	243	111	29	7.0	13	6.3
12	9.2	21	25	25	27	50	259	93	24	6.3	19	24
13	9.2	22	25	24	29	47	254	100	21	5.0	15	47
14	9.2	25	24	24	50	50	249	165	21	5.0	13	47
15	10	31	22	24	69	53	222	143	22	5.0	11	41
16	14	38	21	24	76	104	188	119	19	4.3	8.4	31
17	13	33	27	22	69	178	160	119	16	5.0	7.7	31
18	12	29	27	21	62	165	143	107	14	9.2	7.0	27
19	13	27	25	21	53	138	130	89	12	12	5.6	25
20	12	27	24	19	53	126	123	79	11	16	8.4	21
21	11	33	22	18	53	107	119	69	12	15	7.7	22
22	13	33	22	18	50	89	111	69	18	12	7.0	24
23	15	41	24	19	50	82	104	65	16	9.2	6.3	22
24	19	44	27	19	50	79	93	56	14	7.7	5.0	18
25	21	36	25	19	44	72	93	50	13	7.0	3.7	14
26	21	29	24	22	41	69	93	50	27	6.3	3.7	12
27	18	25	22	27	53	65	86	44	27	14	5.0	11
28	15	25	21	27	79	65	79	44	22	16	14	10
29	15	25	19	27	------	76	93	41	15	15	24	10
30	13	25	19	27	------	93	107	38	13	25	22	10
31	13	------	19	25	------	107	------	36	------	47	16	------
TOTAL	400.6	769	789	758	1,193	2,647	5,435	2,817	699	419.1	665.5	563.6
MEAN	12.9	25.6	25.5	24.5	42.6	85.4	181	90.9	23.3	13.5	21.5	18.8
MAX	21	44	41	38	79	178	438	165	44	47	79	47
MIN	7.7	12	19	18	19	47	79	36	11	4.3	3.7	6.3
CFSM	.30	.59	.58	.56	.97	1.95	4.14	2.08	.53	.31	.49	.43
IN.	.34	.65	.67	.65	1.02	2.25	4.63	2.40	.60	.36	.57	.48

CAL YR 1970 TOTAL 23,275.05 MEAN 63.8 MAX 751 MIN .05 CFSM 1.46 IN 19.81
WTR YR 1971 TOTAL 17,155.80 MEAN 47.0 MAX 438 MIN 3.7 CFSM 1.08 IN 14.60

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-4	0400	20.41	477				

01174600 Cadwell Creek near Pelham, Mass.

LOCATION.--Lat 42°21'16", long 72°23'18", Hampshire County, on left bank 0.8 mile east of Knights Corner, 2 miles upstream from mouth, 2.7 miles south of Pelham, and 5 miles north of Belchertown.

DRAINAGE AREA.--0.63 sq mi.

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 860 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 0.94 cfs (20.26 inches per year).

EXTREMES.--Current year: Maximum discharge, 23 cfs Apr. 2 (gage height, 4.68 ft), from rating curve extended above 10 cfs; no flow for part of each day, July 12, 13.

Period of record: Maximum discharge, 36 cfs Feb. 3, 1970 (gage height, 5.06 ft), from rating curve extended above 10 cfs; no flow at times.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.18	.67	.50	.45	3.2	4.2	1.2	.45	.06	.96	.08
2	.14	.19	.60	.50	.41	2.5	8.6	1.1	.37	.15	1.3	.06
3	.50	.20	.52	.50	.37	2.0	16	2.3	.57	.06	.77	.06
4	.83	.22	2.5	.65	.37	1.7	7.5	4.5	.57	.04	1.2	.05
5	.33	1.8	1.3	2.5	.37	1.4	4.9	2.3	.37	.03	.43	.05
6	.25	.73	.96	1.5	.45	1.2	3.6	1.7	.31	.02	.22	.05
7	.20	.50	.67	1.0	.41	1.3	3.8	1.3	.26	.02	.13	.05
8	.18	.39	.52	.83	.45	1.3	3.5	1.4	1.3	.01	.09	.05
9	.16	.33	.52	.83	.90	1.1	3.4	3.0	1.3	.01	.06	.08
10	.14	.41	.62	.65	.60	.96	3.8	2.9	.55	.01	.05	.06
11	.14	.77	.52	.57	.52	.93	3.2	1.8	.37	.01	.14	.04
12	.14	.67	.55	.57	.55	.90	2.7	1.4	.30	.01	.28	3.9
13	.14	.62	.55	.47	1.5	.90	2.3	4.0	.26	.01	.08	.93
14	.14	1.6	.52	.45	3.8	.93	2.0	3.7	.21	.02	.05	.67
15	.30	1.8	.47	.45	1.6	2.6	1.7	2.0	.18	.01	.04	.43
16	.50	1.5	.45	.45	1.1	7.6	1.6	2.3	.15	.01	.04	.28
17	.26	.90	.50	.43	.86	4.8	1.4	2.4	.12	.28	.03	.96
18	.22	.67	.55	.39	.86	3.3	1.2	1.7	.09	.23	.02	.45
19	.18	.83	.57	.37	.93	2.5	1.2	1.3	.07	.40	.02	.30
20	.16	1.1	.65	.41	1.0	2.2	1.0	1.2	.06	.24	.05	.22
21	.16	1.8	.60	.35	1.0	1.8	1.0	1.0	.06	.08	.03	.86
22	.35	.96	.55	.35	.86	1.7	.96	1.0	.08	.04	.02	.43
23	.65	1.6	.55	.35	.96	1.7	.90	.85	.06	.03	.02	.26
24	.43	1.0	.55	.35	.90	1.5	.83	.77	.05	.02	.01	.19
25	.31	.73	.55	.35	.86	1.3	.90	.73	.14	.03	.01	.15
26	.26	.60	.58	1.2	.90	1.3	.86	.73	.71	.03	.01	.13
27	.23	.57	.57	1.2	3.7	1.4	.80	.70	.15	1.1	.67	.13
28	.20	.57	.55	.77	4.3	1.8	.90	.67	.07	.18	2.8	.13
29	.19	.57	.50	.60	------	2.8	2.3	.60	.06	.23	.55	.12
30	.18	.90	.53	.57	------	3.4	1.7	.52	.05	.83	.23	.10
31	.18	------	.50	.50	------	3.8	------	.52	------	3.0	.12	------
TOTAL	8.20	24.71	20.24	20.61	30.98	65.82	88.75	51.60	9.29	7.20	10.43	11.27
MEAN	.26	.82	.65	.66	1.11	2.12	2.96	1.66	.31	.23	.34	.38
MAX	.83	1.8	2.5	2.5	4.3	7.6	16	4.5	1.3	3.0	2.8	3.9
MIN	.14	.18	.45	.35	.37	.90	.80	.52	.05	.01	.01	.04
CFSM	.41	1.30	1.03	1.05	1.76	3.37	4.70	2.63	.49	.37	.54	.60
IN.	.48	1.46	1.20	1.22	1.83	3.89	5.24	3.05	.55	.43	.62	.67

CAL YR 1970 TOTAL 422.38 MEAN 1.16 MAX 21 MIN .01 CFSM 1.84 IN 24.94
WTR YR 1971 TOTAL 349.10 MEAN .96 MAX 16 MIN .01 CFSM 1.52 IN 20.61

PEAK DISCHARGE (BASE, 18 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-2	2330	4.68	23				

01174900 Cadwell Creek near Belchertown, Mass.

LOCATION.--Lat 42°20'08", long 72°22'12", Hampshire County, on left bank 200 ft upstream from mouth, 2 miles southeast of Knights Corner, and 4.5 miles north of Belchertown.

DRAINAGE AREA.--2.81 sq mi.

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Altitude of gage is 540 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 3.92 cfs (18.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 79 cfs Apr. 3 (gage height, 6.44 ft); minimum, 0.13 cfs July 13.
Period of record: Maximum discharge, 190 cfs Feb. 3, 1970 (gage height, 7.05 ft); minimum, 0.07 cfs several times in water years 1964, 1965, and 1966.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt. 1967: 1962-63(M), 1964(P), 1966(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	.87	2.8	2.0	2.1	11	12	4.9	2.1	.50	3.5	.78
2	.72	.90	2.6	2.1	2.0	8.6	24	4.4	1.8	.69	6.5	.61
3	.97	1.0	2.3	2.1	1.9	7.3	61	7.1	3.0	.50	4.0	.54
4	3.1	1.1	7.2	2.3	1.8	6.8	31	14	3.1	.38	6.0	.51
5	1.4	5.8	4.5	8.1	2.0	5.7	19	7.6	2.0	.31	2.6	.43
6	1.1	2.9	3.6	5.2	2.3	5.0	14	5.8	1.6	.27	1.5	.40
7	.94	2.0	2.8	3.7	2.2	5.3	15	4.9	1.5	.24	1.0	.43
8	.84	1.7	2.6	3.1	2.3	5.6	13	4.9	3.8	.19	.78	.43
9	.81	1.4	2.6	3.0	4.0	4.8	13	9.4	4.8	.19	.61	.60
10	.75	1.6	2.8	2.8	2.9	4.3	16	11	2.3	.17	.49	.78
11	.72	2.5	2.6	2.6	2.6	4.1	14	6.7	1.7	.16	1.0	.50
12	.72	2.4	2.6	2.4	2.6	3.9	11	5.5	1.5	.16	2.1	13
13	.72	1.9	2.6	2.1	3.8	3.9	10	12	1.3	.15	.90	5.1
14	.72	4.7	2.4	2.1	11	4.1	8.8	14	1.2	.36	.63	3.5
15	.90	5.1	2.3	2.2	5.7	9.8	7.3	7.7	1.0	.22	.52	2.6
16	2.1	4.6	2.2	2.1	4.2	24	6.6	7.8	.94	.17	.44	1.9
17	1.2	3.1	2.5	1.7	3.7	16	6.0	9.1	.84	.84	.36	4.1
18	1.0	2.5	2.6	1.7	3.6	11	5.5	6.5	.75	1.8	.30	2.8
19	.94	2.8	2.5	1.7	3.8	9.1	5.2	5.4	.63	1.5	.27	1.9
20	.81	3.5	2.7	1.7	4.2	8.0	4.8	4.8	.58	1.7	1.5	1.5
21	.81	5.5	2.6	1.7	4.2	6.8	4.6	4.4	.70	.71	.71	3.5
22	1.2	3.3	2.3	1.8	3.8	6.5	4.3	4.5	.97	.44	.50	2.4
23	2.4	5.1	2.4	1.9	4.1	6.4	4.1	3.8	.58	.32	.37	1.8
24	2.0	3.6	2.4	1.8	3.9	5.7	3.9	3.4	.50	.25	.27	1.3
25	1.4	2.8	2.3	2.0	3.8	5.3	4.1	3.3	.59	.24	.25	1.0
26	1.2	2.4	2.3	3.4	3.9	5.0	3.9	3.2	2.4	.24	.24	.88
27	1.1	2.4	2.3	4.8	12	5.1	3.7	3.0	.87	.97	1.9	.87
28	.97	2.4	2.2	3.0	14	5.9	3.9	3.1	.60	.71	11	.88
29	.90	2.4	2.1	2.7	------	8.4	8.5	2.7	.48	.47	3.3	.89
30	.90	3.3	2.0	2.4	------	10	6.4	2.5	.43	2.6	1.7	.80
31	.87	------	1.8	2.3	------	11	------	2.6	------	7.2	1.1	------
TOTAL	34.99	85.57	83.5	82.5	118.4	234.4	344.6	190.0	44.56	24.65	56.34	56.73
MEAN	1.13	2.85	2.69	2.66	4.23	7.56	11.5	6.13	1.49	.80	1.82	1.89
MAX	3.1	5.8	7.2	8.1	14	24	61	14	4.8	7.2	11	13
MIN	.72	.87	1.8	1.7	1.8	3.9	3.7	2.5	.43	.15	.24	.40
CFSM	.40	1.01	.96	.95	1.51	2.69	4.09	2.18	.53	.28	.65	.67
IN.	.46	1.13	1.11	1.09	1.57	3.10	4.56	2.52	.59	.33	.75	.75

CAL YR 1970 TOTAL 1,717.73 MEAN 4.71 MAX 85 MIN .13 CFSM 1.68 IN 22.74
WTR YR 1971 TOTAL 1,356.24 MEAN 3.72 MAX 61 MIN .15 CFSM 1.32 IN 17.95

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-3	0145	6.44	79				

01175500 Swift River at West Ware, Mass.

LOCATION.--Lat 42°16'04", long 72°19'59", Hampshire County, on left bank at West Ware, 1.4 miles downstream from Quabbin Reservoir, 3.5 miles east of Belchertown, and 8.0 miles upstream from mouth.

DRAINAGE AREA.--188 sq mi, includes 1.6 sq mi drained by Beaver Brook, flow of which is diverted from Ware River basin. Prior to January 1937, 186 sq mi.

PERIOD OF RECORD.--July 1910 to September 1912 (twice-daily gage heights and corresponding discharges), October 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 365.18 ft above mean sea level. Prior to Aug. 25, 1912, nonrecording gage at site 400 ft upstream at same datum.

AVERAGE DISCHARGE.--59 years (1912-71), 296 cfs (21.38 inches per year), adjusted for storage and diversions.

EXTREMES.--Current year: Maximum discharge, 189 cfs Aug. 11 (gage height, 3.02 ft); maximum gage height, 3.17 ft Jan. 18 (backwater from ice); minimum daily discharge, 24 cfs Feb. 7, June 6, 13.

Period of record: Maximum discharge, 7,590 cfs Mar. 19, 1936 (gage height, 15.00 ft); minimum daily, 9.1 cfs Dec. 15, 1968. Maximum discharge since construction of Quabbin Reservoir in 1939, 1,870 cfs Apr. 30, 1956 (gage height, 8.37 ft).

REMARKS.--Records good. Flow regulated since August 1939 by Quabbin Reservoir (see p. 209). Diversion from Ware River to Quabbin Reservoir since 1940, from Quabbin Reservoir to Wachusett Reservoir since 1941, from Quabbin Reservoir to Chicopee Valley aqueduct since 1950, and at times since January 1966 from Quabbin Reservoir to city of Worcester. No diversion to city of Worcester during year. See table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 401: Drainage area. WSP 451: 1916. WSP 871: 1919. WSP 1031: 1944 (changes in reservoir contents and adjusted figures only). WSP 1301: 1925(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	26	36	25	42	44	36	42	44	67	91	37
2	38	45	36	45	35	36	37	25	36	38	92	76
3	44	37	36	26	35	36	46	44	37	43	91	93
4	30	37	38	43	35	37	26	39	37	29	92	90
5	30	38	43	36	35	36	44	37	42	28	49	93
6	45	37	26	36	41	41	37	37	24	44	37	93
7	37	43	44	37	24	27	39	37	43	77	42	93
8	37	26	37	37	42	43	38	43	36	89	25	93
9	37	45	36	42	35	36	37	26	37	89	43	53
10	44	43	37	26	35	36	43	44	36	86	36	36
11	30	26	37	43	35	35	26	37	36	89	77	43
12	30	45	42	36	34	35	43	37	41	89	93	32
13	47	37	26	36	43	41	37	40	24	90	91	45
14	38	44	44	36	29	25	37	39	43	90	86	38
15	39	27	36	36	28	44	37	43	36	89	89	37
16	40	45	36	42	43	41	37	26	36	89	90	37
17	45	37	36	26	37	38	43	45	36	71	89	38
18	27	37	36	43	35	37	28	37	78	82	89	43
19	46	37	42	36	35	37	28	37	84	91	89	26
20	37	37	26	36	41	42	44	37	88	91	89	44
21	38	43	44	36	25	25	37	37	88	90	87	39
22	38	26	36	36	42	43	37	43	89	90	89	37
23	38	45	36	42	36	37	37	25	90	90	89	37
24	44	37	42	25	35	36	41	43	90	83	82	37
25	27	42	26	42	35	36	25	36	81	89	83	42
26	46	26	45	35	35	36	43	37	78	90	92	26
27	37	44	26	35	42	41	36	37	90	90	94	44
28	38	43	44	35	28	25	37	37	89	89	95	35
29	37	26	37	36	------	43	38	44	90	90	94	72
30	37	44	37	42	------	37	37	29	89	91	94	82
31	43	------	41	25	------	37	------	29	------	89	53	------
TOTAL	1,182	1,125	1,148	1,116	997	1,143	1,111	1,149	1,748	2,442	2,432	1,591
MEAN	38.1	37.5	37.0	36.0	35.6	36.9	37.0	37.1	58.3	78.8	78.5	53.0
MAX	47	45	49	49	43	44	46	45	90	91	95	93
MIN	27	26	26	25	24	25	25	25	24	28	25	26
(†)	+478	+473	+476	+388	+431	-54.4	-289	-67.8	+163	+480	+482	+479
MEAN‡	73.4	195	207	190	337	398	632	404	97.8	140	143	145
CFSM‡	.39	1.04	1.10	1.01	1.79	2.12	3.36	2.15	.52	.74	.76	.77
IN.‡	.45	1.16	1.27	1.16	1.87	2.44	3.75	2.48	.58	.86	.88	.86

CAL YR 1970 TOTAL 18,517 MEAN 50.7 MAX 100 MIN 22 MEAN‡ 300 CFSM‡ 1.60 IN‡ 21.66
WTR YR 1971 TOTAL 17,184 MEAN 47.1 MAX 95 MIN 24 MEAN‡ 246 CFSM‡ 1.31 IN‡ 17.75

† Diversions, in cubic feet per second, to Quabbin Reservoir from Ware River and from Quabbin Reservoir to Wachusett Reservoir and Chicopee Valley aqueduct.

‡ Adjusted for diversions and change in contents in Quabbin Reservoir.

01175670 Sevenmile River near Spencer, Mass.

LOCATION.--Lat 42°15'54", long 72°00'19", Worcester County, on right bank 40 ft upstream from bridge on Cooney Road and 1.5 miles north of Spencer.

DRAINAGE AREA.--8.58 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1960. October 1960 to current year. October and November 1960 monthly discharge only, published in WSP 1901.

GAGE.--Water-stage recorder. Altitude of gage is 640 ft (from topographic map).

AVERAGE DISCHARGE.--11 years, 12.1 cfs (19.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 89 cfs Apr. 3 (gage height, 3.75 ft); maximum gage height, 4.07 ft Mar. 16 (affected by backwater from ice); minimum discharge, 0.39 cfs July 10.

Period of record: Maximum discharge, 412 cfs Mar. 18, 1968 (gage height, 5.19 ft), from rating curve extended above 160 cfs; maximum gage height, 5.41 ft Mar. 7, 1963 (backwater from ice); minimum discharge, 0.15 cfs Sept. 12, 1963.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.3	5.4	4.7	5.0	35	38	18	13	2.7	5.7	1.8
2	1.1	2.3	5.1	5.0	4.7	35	43	16	10	3.8	4.7	1.5
3	1.4	2.5	4.6	4.5	4.6	32	80	18	11	3.3	3.9	1.3
4	2.4	2.7	10	4.9	4.5	28	79	26	12	2.7	7.4	1.1
5	1.9	3.7	10	7.4	4.6	26	67	23	9.0	2.1	5.6	1.0
6	1.7	4.0	8.2	12	4.8	23	58	20	7.5	2.0	4.4	.93
7	1.5	3.5	7.3	15	5.1	20	58	17	6.6	5.1	2.6	.90
8	1.3	3.2	5.8	12	5.5	21	53	15	7.5	1.2	2.6	.80
9	1.3	3.0	5.6	10	6.5	19	49	19	10	.65	1.7	.74
10	1.3	2.9	6.2	9.0	6.6	17	51	28	8.4	.49	1.3	.68
11	1.5	3.7	5.5	7.0	6.7	17	56	26	7.2	.52	3.8	.65
12	1.2	4.0	5.9	5.1	7.0	16	54	23	6.2	.53	6.5	5.0
13	1.3	4.1	6.4	5.7	8.0	16	50	34	5.5	.65	3.7	13
14	1.5	6.9	6.4	5.6	20	16	46	54	4.9	1.3	2.4	11
15	1.7	7.3	5.8	5.4	24	20	41	40	4.6	1.0	2.5	8.0
16	2.9	7.3	5.2	5.2	22	57	37	36	4.4	.78	1.3	6.0
17	2.3	6.2	6.0	5.0	21	55	34	36	3.8	.87	1.2	4.7
18	2.1	5.6	7.0	4.8	20	48	31	31	3.4	2.9	1.0	3.9
19	2.0	5.4	6.6	4.6	19	40	29	27	3.0	2.3	.87	3.3
20	2.1	5.9	6.4	4.4	18	38	27	24	2.9	2.6	.91	3.0
21	2.0	9.4	6.2	4.3	16	34	25	22	2.6	2.2	.80	3.5
22	2.0	8.0	5.8	4.1	15	31	23	22	3.6	1.5	.74	2.9
23	3.2	7.6	6.0	4.0	15	29	21	20	5.1	.71	.74	2.3
24	4.2	7.3	6.2	4.3	15	27	20	18	2.4	.83	.67	2.0
25	3.5	5.9	6.2	4.3	14	25	19	17	3.3	.83	.58	1.7
26	3.2	5.2	6.0	5.0	14	23	18	16	6.0	.87	.55	1.4
27	3.0	5.1	5.8	7.0	18	23	17	15	4.8	.91	1.3	1.2
28	2.8	5.2	5.6	6.6	30	24	16	16	3.8	.74	6.0	1.0
29	2.5	5.1	5.4	6.1	------	28	19	16	3.1	.76	4.4	.92
30	2.4	5.6	5.0	5.7	------	34	20	14	2.5	2.2	2.7	.85
31	2.3	------	4.7	5.3	------	36	------	14	------	4.1	2.2	------
TOTAL	64.8	150.9	192.3	194.4	354.6	893	1,179	721	178.1	53.14	84.76	87.07
MEAN	2.09	5.03	6.20	6.27	12.7	28.8	39.3	23.3	5.94	1.71	2.73	2.90
MAX	4.2	9.4	10	15	30	57	80	54	13	5.1	7.4	13
MIN	1.1	2.3	4.6	4.0	4.5	16	16	14	2.4	.49	.55	.65
CFSM	.24	.59	.72	.73	1.48	3.36	4.58	2.72	.69	.20	.32	.34
IN.	.28	.65	.83	.84	1.54	3.87	5.11	3.13	.77	.23	.37	.38

CAL YR 1970 TOTAL 5,257.50 MEAN 14.4 MAX 150 MIN .43 CFSM 1.68 IN 22.79
WTR YR 1971 TOTAL 4,153.07 MEAN 11.4 MAX 80 MIN .49 CFSM 1.33 IN 18.01

PEAK DISCHARGE (BASE, 60 CFS)

NOTE.--No gage-height record Sept. 3-30.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-16	0930	3.52	65				
4-3	1530	3.75	89				
5-13	2315	3.47	60				

01176000 Quaboag River at West Brimfield, Mass.

L[illegible]t 42°10'56", long 72°15'51", Hampden County, on right bank 10 ft upstream from abandoned highway-bridge site at West Brimfield, [illegible]ile upstream from Blodgett Mill Brook, 3.5 miles northeast of Palmer, and 9.9 miles upstream from mouth.

D[illegible]GE AREA.--151 sq mi.

PERIOD OF RECORD.--August 1909 to August 1912 (twice-daily gage heights and corresponding discharges), September 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (from topographic map). Prior to Aug. 19, 1912, nonrecording gage, and Aug. 19, 1912, to Oct. 31, 1955, water-stage recorder, at several sites 0.5 mile downstream at different datum.

AVERAGE DISCHARGE.--59 years (1912-71), 236 cfs (21.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 689 cfs Apr. 7 (gage height, 4.92 ft); maximum gage height, 5.00 ft Feb. 28 (backwater from ice); minimum daily discharge, 26 cfs Sept. 11.

Period of record: Maximum discharge, 12,800 cfs Aug. 19, 1955 (gage height, 15.36 ft, from floodmarks, present site and datum), from rating curve extended above 2,700 cfs on basis of slope-area measurement of peak flow; minimum daily, 6.6 cfs Sept. 28, 29, 1957.

REMARKS.--Records good except those for winter period, which are fair. Slight diurnal fluctuation at low flow caused by mill above station prior to 1956; regulation much greater prior to 1938. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 451: 1916. WSP 711: Drainage area. WSP 1301: 1918(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	65	106	85	96	390	481	286	197	42	104	53
2	33	61	104	86	92	423	500	281	171	59	91	52
3	36	59	103	86	89	428	594	291	170	54	85	45
4	55	64	101	90	85	423	623	358	167	52	92	42
5	57	66	95	110	85	345	653	349	160	43	99	38
6	47	66	127	150	86	383	664	347	153	41	94	35
7	46	72	99	155	92	403	681	330	145	51	86	34
8	43	69	91	145	100	380	677	323	133	46	78	31
9	42	65	88	135	120	337	684	336	137	43	71	28
10	40	66	110	125	125	323	674	361	133	40	64	27
11	40	71	110	115	120	328	652	365	126	36	80	26
12	47	73	115	105	130	303	645	364	122	35	101	83
13	38	72	115	100	150	289	631	407	111	31	89	116
14	36	104	110	98	200	278	599	490	108	32	85	137
15	40	120	105	96	270	319	561	504	95	28	76	140
16	48	124	100	94	290	507	547	525	86	28	66	138
17	44	120	100	91	310	590	522	536	77	32	61	125
18	48	119	110	87	320	609	487	518	70	40	55	112
19	43	119	120	85	310	637	459	495	63	38	49	99
20	42	122	110	83	290	660	441	461	56	43	48	87
21	42	131	105	81	280	630	415	424	54	44	45	89
22	49	138	100	80	265	606	376	392	59	40	40	83
23	61	145	100	79	260	590	340	359	56	38	36	74
24	69	143	105	81	255	549	343	335	52	36	29	63
25	79	139	110	85	250	517	322	311	48	36	28	59
26	78	130	105	95	250	501	310	283	74	38	27	53
27	73	122	98	115	280	483	295	262	61	37	30	48
28	81	114	94	115	350	464	278	251	53	33	60	45
29	75	108	90	115	------	461	302	240	48	34	60	42
30	71	107	86	110	------	463	295	226	43	42	59	39
31	66	------	84	105	------	470	------	214	------	78	57	------
TOTAL	1,603	2,974	3,196	3,182	5,550	14,089	15,055	11,224	3,028	1,270	2,045	2,043
MEAN	51.7	99.1	103	103	198	454	502	362	101	41.0	66.0	68.1
MAX	81	145	127	155	350	660	684	536	197	78	104	140
MIN	33	59	84	79	85	278	278	214	43	28	27	26
CFSM	.34	.66	.68	.68	1.31	3.01	3.32	2.40	.67	.27	.44	.45
IN.	.39	.73	.79	.78	1.37	3.47	3.71	2.77	.75	.31	.50	.50

CAL YR 1970 TOTAL 87,732 MEAN 240 MAX 1,260 MIN 19 CFSM 1.59 IN 21.61
WTR YR 1971 TOTAL 65,259 MEAN 179 MAX 684 MIN 26 CFSM 1.19 IN 16.08

PEAK DISCHARGE (BASE, 840 CFS).--No peak above base.

NOTE.--No gage-height record Dec. 10 to Jan. 6, Jan. 8-15.

01177000 Chicopee River at Indian Orchard, Mass.

LOCATION.--Lat 42°09'38", long 72°30'52", Hampden County, on left bank 1,000 ft downstream from West Street Bridge at Indian Orchard, 1.1 miles upstream from Fuller Brook, and 7.2 miles upstream from mouth.

DRAINAGE AREA.--688 sq mi.

PERIOD OF RECORD.--August 1928 to current year. Published as "at Bircham Bend" prior to November 1938.

GAGE.--Water-stage recorder. Altitude of gage is 125 ft (from topographic map). Prior to Nov. 1, 1938, water-stage recorder at site 1.8 miles downstream at different datum.

AVERAGE DISCHARGE.--43 years, 1,056 cfs (20.54 inches per year), adjusted to present drainage area and for storage and diversions.

EXTREMES.--Current year: Maximum discharge, 2,450 cfs Apr. 4 (gage height, 7.10 ft); minimum daily, 103 cfs Oct. 15.
Period of record: Maximum discharge, 45,200 cfs Sept. 21, 1938, by computation of flow over dam; minimum daily, 16 cfs several times in 1929-31.

REMARKS.--Records good. Diversion since 1941 from 186 sq mi in Swift River basin and at times since 1931 from 97 sq mi in Ware River basin for Boston metropolitan district; since 1950, for city of Chicopee; since 1952, for South Hadley; and, at times since 1966, for city of Worcester. Diversion from Ludlow Reservoir for Springfield and, prior to 1952, for Chicopee. See table below for figures of diversion. Flow regulated by powerplants above station, by Quabbin Reservoir (21 miles upstream) on Swift River since 1939, by Barre Falls Reservoir on Ware River since 1958, by Conant Brook Reservoir since 1966 (see p. 209), and by smaller reservoirs.

REVISIONS (WATFR YEARS).--WSP 711: Drainage area. WSP 1231: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	260	447	366	330	1,450	1,380	902	676	400	650	291
2	199	306	420	283	320	1,370	1,390	872	580	450	677	256
3	192	222	395	357	310	1,290	1,930	914	538	413	533	226
4	274	253	502	420	300	1,240	2,290	1,230	704	323	575	254
5	357	272	621	453	300	1,060	1,960	1,270	660	331	534	237
6	311	330	589	583	310	1,030	1,740	1,100	523	264	395	290
7	230	257	541	553	310	1,090	1,730	987	534	345	331	253
8	280	314	420	660	391	1,160	1,770	932	549	331	259	224
9	260	322	453	628	389	957	1,690	1,050	512	345	240	232
10	150	314	469	431	427	918	1,710	1,220	596	206	353	174
11	240	275	469	519	410	914	1,670	1,130	530	221	201	117
12	170	260	415	480	404	863	1,600	1,040	454	311	562	583
13	270	357	353	443	443	835	1,530	1,090	389	325	626	854
14	246	453	491	444	711	840	1,330	1,680	431	304	393	735
15	103	559	419	352	792	900	1,240	1,510	405	238	364	668
16	250	641	362	341	766	1,200	1,240	1,340	362	265	355	558
17	290	502	318	312	721	1,900	1,210	1,420	357	273	225	462
18	268	491	469	300	721	1,800	1,180	1,340	338	357	227	383
19	279	469	405	290	771	1,700	1,080	1,250	330	420	337	410
20	268	442	431	285	765	1,600	1,070	1,110	299	396	296	381
21	175	486	457	280	759	1,550	998	991	347	325	277	431
22	213	535	447	280	774	1,500	973	999	416	346	214	295
23	290	621	400	290	804	1,500	893	905	424	261	237	439
24	283	589	348	300	831	1,460	884	862	444	244	222	313
25	357	535	400	360	762	1,280	845	826	433	270	205	228
26	405	436	330	376	782	1,230	887	766	483	306	185	241
27	322	436	366	415	948	1,230	846	729	439	322	334	231
28	268	395	447	432	1,190	1,200	813	756	474	246	456	287
29	286	405	380	401	------	1,190	954	728	408	304	492	178
30	246	475	362	373	------	1,370	1,050	628	379	311	450	236
31	183	------	268	350	------	1,380	------	667	------	414	378	------
TOTAL	7,816	12,212	13,234	12,357	16,741	38,997	39,883	32,244	14,014	9,867	11,583	10,467
MEAN	252	407	427	399	598	1,258	1,329	1,040	467	318	374	349
MAX	405	641	621	660	1,190	1,900	2,290	1,680	704	450	677	854
MIN	103	222	268	280	300	835	813	628	299	206	185	117
(†)	+478	+476	+484	+396	+441	+27.3	+29.5	+22.9	+163	+479	+482	+478
MEAN‡	295	569	598	560	919	1,699	2,242	1,496	499	375	441	445
CFSM‡	.43	.83	.87	.81	1.34	2.47	3.26	2.17	.73	.55	.64	.65
IN.‡	.49	.92	1.00	.94	1.39	2.85	3.64	2.51	.81	.63	.74	.72

CAL YR 1970 TOTAL 289,519 MEAN 793 MAX 5,490 MIN 103 MEAN‡ 1,118 CFSM‡ 1.62 IN‡ 22.06
WTR YR 1971 TOTAL 219,415 MEAN 601 MAX 2,290 MIN 103 MEAN‡ 843 CFSM‡ 1.23 IN‡ 16.64

† Diversions, in cubic feet per second, from Ware and Swift River basins for supply of Boston metropolitan district, Chicopee, and South Hadley, and from Ludlow Reservoir for city of Springfield.

‡ Adjusted for diversions and for change in contents in Quabbin Reservoir (adjusted for diversion from Ware River), Barre Falls, Conant Brook, and Ludlow Reservoirs.

01179500 Westfield River at Knightville, Mass.

LOCATION.--Lat 42°17'16", long 72°51'53", Hampshire County, on left bank at Knightville, 0.2 mile downstream from Knightville Dam, 0.2 mile upstream from Sykes Brook, 2.4 miles upstream from Middle Branch, 3.5 miles north of Huntington, and at mile 29.7.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--August 1909 to current year.

GAGE.--Water-stage recorder. Concrete control since Dec. 20, 1940. Datum of gage is 461.25 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 11, 1935, nonrecording gage at site 0.5 mile upstream at different datum. Jan. 11, 1935, to May 20, 1940, water-stage recorder at site 700 ft upstream at datum 10.57 ft higher. May 21 to Dec. 19, 1940, nonrecording gage at site 700 ft upstream at datum 18.75 ft higher.

AVERAGE DISCHARGE.--62 years, 315 cfs (26.41 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,500 cfs Apr. 21 (gage height, 5.49 ft); minimum, 20 cfs July 29; minimum daily, 22 cfs July 29.
Period of record: Maximum discharge, 37,900 cfs Sept. 21, 1938 (gage height, 29.58 ft, from floodmarks, site and datum then in use), from rating curve extended above 3,800 cfs on basis of slope-area measurements at gage heights 24.07 and 29.58 ft; minimum, 0.1 cfs Apr. 3, 1965; minimum daily, 1.1 cfs Apr. 2, 1965. Maximum discharge since construction of Knightville Reservoir in 1941, 6,660 cfs Mar. 21, 1945 (gage height, 7.45 ft).

REMARKS.--Records good. Flow regulated by Knightville Reservoir since 1941 (see p. 209).

REVISIONS (WATER YEARS).--WSP 415: 1909-12. WSP 1001: 1941-43. WSP 1231: 1910, 1912, 1913(M), 1914-15, 1916-19(M), 1921-23(M), 1925-27(M), 1929-33(M), 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	53	192	117	118	565	292	1,020	264	56	103	160
2	31	52	160	106	118	419	369	956	200	286	92	121
3	31	51	141	112	120	327	622	1,160	196	128	102	97
4	56	49	343	131	115	298	989	1,960	192	78	155	80
5	62	111	338	141	109	225	1,320	1,370	169	60	113	67
6	45	129	227	147	101	220	1,260	1,000	141	51	74	59
7	38	89	127	174	84	230	769	798	129	47	54	55
8	34	76	98	205	80	228	625	757	135	43	43	55
9	32	68	109	171	84	216	565	1,260	302	38	36	54
10	29	63	122	137	88	200	892	1,580	183	34	31	53
11	28	82	128	147	98	194	1,070	940	138	32	30	45
12	27	99	129	153	111	193	1,450	700	116	30	100	112
13	27	91	129	146	124	192	1,850	848	106	28	84	203
14	29	89	130	129	159	190	2,280	1,420	101	27	52	263
15	35	125	129	115	214	190	1,560	840	92	26	39	289
16	115	275	110	114	303	297	1,170	635	82	25	33	200
17	86	174	92	121	310	591	886	717	78	24	29	245
18	61	129	87	127	233	496	1,010	542	71	27	28	198
19	51	122	126	124	196	344	1,320	450	65	31	23	143
20	45	231	150	110	197	309	2,060	393	60	88	56	114
21	44	371	152	123	190	339	2,230	354	58	59	60	158
22	56	270	151	124	187	265	1,840	425	65	41	50	175
23	217	267	148	116	182	292	1,410	354	58	34	42	122
24	210	249	145	110	180	263	1,330	292	52	29	34	100
25	122	160	142	107	175	231	1,340	266	49	27	29	84
26	89	134	140	105	171	235	987	261	207	27	25	75
27	76	141	130	106	191	236	925	250	123	26	33	72
28	71	136	118	136	298	238	977	289	84	23	414	72
29	65	149	117	120	------	252	1,350	244	63	22	1,310	71
30	60	174	117	124	------	298	1,290	211	56	93	1,310	70
31	56	------	119	127	------	289	------	266	------	101	516	------
TOTAL	1,961	4,209	4,546	4,025	4,525	8,862	36,037	22,558	3,635	1,641	5,100	3,612
MEAN	63.3	140	147	130	162	286	1,201	728	121	52.9	165	120
MAX	217	371	343	205	310	591	2,280	1,960	302	286	1,310	289
MIN	27	49	87	105	80	190	292	211	49	22	23	45
MEAN†	63.3	140	150	131	165	279	1,204	725	121	53.0	167	118
CFSM†	.39	.86	.93	.81	1.02	1.72	7.43	4.48	.75	.33	1.03	.73
IN.†	.45	.97	1.07	.93	1.06	1.98	8.29	5.16	.83	.38	1.19	.81

CAL YR 1970 TOTAL 102,341 MEAN 280 MAX 1,850 MIN 11 MEAN† 280 CFSM† 1.73 IN† 23.49
WTR YR 1971 TOTAL 100,711 MEAN 276 MAX 2,280 MIN 22 MEAN† 276 CFSM† 1.70 IN† 23.13

† Adjusted for change in contents in Knightville Reservoir.

01180000 Sykes Brook at Knightville, Mass.

LOCATION.--Lat 42°17'27", long 72°52'15", Hampshire County, on right bank 200 ft downstream from bridge on State Highway 112 at Knightville, 0.4 mile upstream from mouth, 0.4 mile west of Knightville Dam, and 3.5 miles north of Huntington.

DRAINAGE AREA.--1.64 sq mi.

PERIOD OF RECORD.--June 1945 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 641.40 ft above mean sea level.

AVERAGE DISCHARGE.--26 years, 2.48 cfs (20.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 43 cfs Aug. 28 (gage height, 2.31 ft); minimum, 0.11 cfs Aug. 19.
Period of record: Maximum discharge, 680 cfs Aug. 19, 1955 (gage height, 4.485 ft), from rating curve extended above 80 cfs; minimum, 0.01 cfs July 28, 1970 (caused by unusual regulation).

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.33	1.4	1.0	.80	3.8	3.8	5.9	1.8	.46	.33	1.2
2	.21	.31	1.2	1.0	.74	3.4	6.9	4.9	1.6	.46	.89	.89
3	.35	.30	1.1	.95	.70	3.0	17	5.5	1.9	.35	.73	.68
4	.41	.30	2.0	1.2	.70	2.7	13	12	1.7	.31	.68	.52
5	.26	1.2	1.4	2.3	.80	2.5	11	7.6	1.5	.29	.49	.37
6	.24	1.2	1.3	1.7	.80	2.4	9.0	5.9	1.4	.29	.35	.31
7	.23	.80	1.2	1.6	.75	2.3	9.4	4.9	1.3	.27	.31	.29
8	.21	.62	1.1	1.5	.90	2.2	7.9	4.3	2.2	.25	.27	.31
9	.19	.55	1.2	1.4	1.1	2.0	8.2	8.0	1.9	.25	.23	.29
10	.21	.70	1.2	1.3	1.0	2.0	12	11	1.6	.23	.20	.25
11	.21	.90	1.1	1.2	.95	1.9	14	7.3	1.4	.23	.29	.25
12	.20	.80	1.1	1.1	.95	1.8	17	5.2	1.3	.23	.35	.83
13	.20	1.1	1.2	1.2	1.3	1.7	20	10	1.3	.20	.22	.56
14	.20	1.0	1.1	1.3	3.8	1.8	20	9.2	1.2	.22	.20	.83
15	.50	2.7	.95	1.0	2.7	2.0	14	6.2	1.0	.20	.17	.73
16	1.0	2.7	.95	.95	2.1	4.9	12	6.6	.95	.20	.17	.60
17	.65	1.8	1.4	.90	2.0	4.6	9.5	6.6	.95	.17	.16	.68
18	.45	1.4	1.4	.86	1.8	3.6	9.6	4.9	.89	.17	.14	.64
19	.34	1.3	1.2	.84	1.8	3.2	11	4.1	.83	.52	.13	.52
20	.30	3.5	1.2	.82	1.8	2.6	14	3.4	.78	.31	.95	.43
21	.28	3.0	1.2	.80	1.8	2.6	14	3.2	.68	.25	.33	.64
22	1.0	2.3	1.2	.79	1.8	2.5	11	3.2	.56	.20	.29	.43
23	2.0	2.6	1.1	.78	2.0	2.5	9.6	2.6	.46	.17	.27	.35
24	1.3	1.9	1.1	.78	1.9	2.2	8.5	2.3	.40	.16	.22	.37
25	.85	1.4	1.1	.82	1.8	1.9	7.7	2.2	.46	.20	.22	.35
26	.70	1.2	1.1	1.1	1.8	1.9	6.6	2.0	.56	.20	.19	.29
27	.60	1.1	1.0	1.4	3.5	1.9	5.5	2.2	.43	.19	.83	.27
28	.50	1.1	1.0	1.2	4.0	2.0	5.2	2.2	.37	.16	9.6	.25
29	.43	1.3	1.0	1.0	------	2.6	8.4	1.8	.35	.31	4.1	.27
30	.38	1.4	.95	.92	------	3.2	8.0	1.8	.35	.40	2.3	.25
31	.35	------	.95	.86	------	3.4	------	2.0	------	.68	1.6	------
TOTAL	14.94	40.81	36.40	34.57	46.09	81.1	323.8	159.0	32.12	8.53	27.21	14.65
MEAN	.48	1.36	1.17	1.12	1.65	2.62	10.8	5.13	1.07	.28	.88	.49
MAX	2.0	3.5	2.0	2.3	4.0	4.9	20	12	2.2	.68	9.6	1.2
MIN	.19	.30	.95	.78	.70	1.7	3.8	1.8	.35	.16	.13	.25
CFSM	.29	.83	.71	.68	1.01	1.60	6.59	3.13	.65	.17	.54	.30
IN.	.34	.93	.83	.78	1.05	1.84	7.34	3.61	.73	.19	.62	.33

CAL YR 1970 TOTAL 926.19 MEAN 2.54 MAX 31 MIN .08 CFSM 1.55 IN 21.01
WTR YR 1971 TOTAL 819.22 MEAN 2.24 MAX 20 MIN .13 CFSM 1.37 IN 18.58

PEAK DISCHARGE (BASE, 35 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8-28	0915	2.31	43				

NOTE.--No gage-height record Oct. 12 to Dec. 4.

01180500 Middle Branch Westfield River at Goss Heights, Mass.

LOCATION.--Lat 42°15'31", long 72°52'23", Hampshire County, on right bank at upstream side of highway bridge at Goss Heights, 0.3 mile upstream from mouth, 0.7 mile downstream from Littleville Dam, and 1.7 miles north of Huntington.

DRAINAGE AREA.--52.6 sq mi.

PERIOD OF RECORD.--July 1910 to current year.

GAGE.--Water-stage recorder. Datum of gage is 399.30 ft above mean sea level. Prior to June 25, 1930, datum was 2.00 ft higher, and June 25, 1930, to Sept. 30, 1964, datum was 1.00 ft higher. Prior to Sept. 8, 1912, nonrecording gage at same site.

AVERAGE DISCHARGE.--61 years, 101 cfs (26.08 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 912 cfs Apr. 16 (gage height, 4.41 ft); minimum, 2.3 cfs July 19.

Period of record: Maximum discharge, 19,900 cfs Sept. 21, 1938 (gage height, 11.61 ft, present datum), from rating curve extended above 3,200 cfs on basis of mean of two contracted-opening measurements of peak flow; maximum gage height, 14.87 ft, present datum, Mar. 12, 1936 (ice jam); practically no flow Sept. 3, 22, Oct. 20, 1910, July 30, 1912, Oct. 26, 27, 1914. Maximum discharge since construction of Littleville Dam in 1965, 1,170 cfs Apr. 9, 1969 (gage height, 4.79 ft).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some diurnal fluctuation at low flow prior to 1952 caused by mill above station. Flow regulated by Littleville Lake (see p. 209) since 1965.

REVISIONS (WATER YEARS).--WSP 415: 1910-13. WSP 781: 1933(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	15	51	39	32	168	105	304	70	9.6	17	70
2	5.4	15	50	38	31	145	127	269	62	12	20	40
3	6.1	14	47	37	30	125	361	297	60	13	22	28
4	8.4	14	74	37	30	120	453	596	56	11	30	21
5	8.4	22	109	45	31	105	441	431	52	8.8	28	18
6	8.0	35	92	71	31	98	345	307	48	7.6	21	15
7	8.0	33	71	81	31	93	299	239	40	6.7	15	13
8	7.6	29	51	73	34	88	251	209	40	5.4	11	12
9	7.0	24	51	63	37	82	212	317	75	5.1	8.8	12
10	6.7	22	54	56	36	78	297	435	70	4.3	7.0	11
11	6.4	25	52	53	34	75	382	311	65	3.9	6.4	9.9
12	6.4	29	51	50	32	72	447	226	45	3.5	8.8	16
13	6.1	29	49	45	36	71	490	254	38	2.8	9.6	31
14	6.1	31	46	45	61	70	669	404	33	3.0	8.4	50
15	7.3	39	42	43	103	70	716	278	28	2.6	7.0	79
16	13	76	36	42	101	109	750	214	26	2.6	5.7	66
17	17	77	46	40	84	188	429	224	24	2.6	4.8	60
18	16	59	46	37	74	163	365	187	20	2.6	4.3	59
19	15	51	46	35	68	136	454	150	18	3.9	3.7	49
20	13	64	48	34	67	124	699	126	16	7.6	10	39
21	11	106	49	33	70	110	772	110	14	8.0	9.6	39
22	14	114	48	33	69	96	607	105	13	7.0	8.4	48
23	35	104	47	32	72	92	440	100	11	5.4	6.7	42
24	62	99	48	32	71	88	390	90	10	4.5	4.5	35
25	52	74	45	32	66	84	379	82	10	4.5	3.5	28
26	39	57	43	35	63	81	300	75	14	4.3	3.2	24
27	31	51	42	40	91	79	262	72	14	4.1	5.7	21
28	25	46	40	43	166	78	267	76	12	3.5	96	20
29	21	45	39	40	------	82	358	72	10	3.7	298	19
30	19	47	38	37	------	92	373	66	9.2	7.3	348	18
31	17	------	37	36	------	100	------	64	------	13	178	------
TOTAL	504.0	1,446	1,588	1,357	1,651	3,162	12,440	6,690	1,003.2	183.9	1,210.1	992.9
MEAN	16.3	48.2	51.2	43.8	59.0	102	415	216	33.4	5.93	39.0	33.1
MAX	62	114	109	81	166	188	772	596	75	13	348	79
MIN	5.4	14	36	32	30	70	105	64	9.2	2.6	3.2	9.9
MEAN †	16.7	49.7	50.7	43.8	63.8	100	422	208	30.9	6.42	44.9	27.1
CFSM †	.32	.94	.96	.83	1.21	1.90	8.02	3.95	.59	.12	.85	.52
IN. †	.37	1.05	1.11	.96	1.26	2.19	8.95	4.55	.66	.14	.98	.57

CAL YR 1970 TOTAL 32,582.3 MEAN 89.3 MAX 665 MIN 2.1 MEAN† 89.1 CFSM† 1.69 IN† 23.01
WTR YR 1971 TOTAL 32,228.1 MEAN 88.3 MAX 772 MIN 2.6 MEAN† 88.3 CFSM† 1.68 IN† 22.80

† Adjusted for change in contents in Littleville Lake.
NOTE.--No gage-height record May 22 to June 24.

01180800 Walker Brook near Becket Center, Mass.

LOCATION.--Lat 42°15'49", long 73°02'48", Berkshire County, on right bank 20 ft upstream from culvert on U.S. Highway 20, 0.2 mile east of Bonny Rigg Corners, 1.7 miles southeast of Becket Center, and 3.5 miles west of Chester.

DRAINAGE AREA.--3.01 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1962. November 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 5.45 cfs (24.59 inches per year).

EXTREMES.--Current year: Maximum discharge, 241 cfs Aug. 28 (gage height, 6.17 ft), from rating curve extended above 93 cfs; minimum, 0.23 cfs July 13, 14, Aug. 19, 20.

Period of record: Maximum discharge, 256 cfs Apr. 22, 1969 (gage height, 6.34 ft), from rating curve extended above 93 cfs; minimum, 0.14 cfs Sept. 11, 1963, Aug. 24, 1965.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Recording rain gage at station since May 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	1.0	3.3	2.3	1.9	8.5	6.0	14	3.5	1.2	2.5	1.6
2	.48	.87	2.7	2.5	1.6	7.2	10	12	2.9	1.9	2.8	1.2
3	.66	.87	2.4	2.4	1.5	6.5	36	17	3.0	1.2	3.2	1.1
4	1.2	.87	9.0	2.3	1.7	6.0	28	27	3.3	.76	4.2	1.1
5	.87	7.3	7.5	5.0	2.1	5.6	21	19	2.6	.60	2.3	.91
6	.73	4.6	5.1	6.7	2.5	5.4	14	12	2.2	.54	1.3	.82
7	.66	2.4	3.6	5.0	2.2	5.1	15	9.6	2.0	.48	.82	.78
8	.66	1.6	2.9	4.0	3.7	4.9	12	9.6	2.3	.48	.65	.76
9	.66	1.3	2.9	3.6	2.7	4.8	11	25	6.2	.43	.60	.74
10	.60	1.3	2.9	3.5	2.5	4.6	18	22	3.5	.37	.48	.68
11	.60	1.7	2.7	3.2	2.2	4.4	21	13	2.4	.32	.71	.62
12	.60	2.3	2.7	2.8	2.5	4.4	30	9.6	1.9	.32	1.9	3.1
13	.60	2.7	2.7	2.5	4.1	4.2	42	18	1.7	.32	.94	3.3
14	.60	2.9	2.6	2.7	9.4	4.2	38	19	1.7	.32	.71	25
15	1.2	6.8	2.4	2.7	6.7	5.8	25	12	1.5	.37	.60	16
16	4.9	7.9	2.3	2.3	5.0	12	20	11	1.3	.32	.54	8.2
17	2.1	4.9	4.0	1.9	4.0	10	16	13	1.2	.32	.48	20
18	1.2	3.2	3.6	1.8	4.0	7.6	19	9.5	1.1	.54	.43	12
19	.95	3.8	3.3	1.7	4.0	6.5	30	7.2	.95	.82	.23	7.1
20	.73	6.6	3.2	1.7	4.0	7.0	40	6.2	.85	1.1	.48	5.0
21	2.9	8.8	3.0	1.7	4.3	5.8	35	5.6	.78	.76	.48	9.2
22	11	5.9	3.0	1.7	4.5	5.2	27	6.8	.76	.60	.54	6.4
23	15	8.0	2.8	1.8	4.4	5.0	22	5.4	.76	.43	.43	4.8
24	12	5.9	2.6	1.9	4.0	4.6	19	4.7	.65	.40	.37	3.1
25	10	3.3	2.6	2.0	3.8	4.4	17	4.7	.71	.38	.34	2.8
26	9.6	2.4	2.5	2.7	4.5	4.4	14	4.2	2.0	.37	.32	2.5
27	9.0	2.4	2.5	3.6	11	4.2	12	4.2	1.1	.35	2.3	2.3
28	7.9	2.6	2.5	2.9	10	4.4	13	4.5	.71	.32	53	2.1
29	6.4	2.7	2.4	2.7	------	4.8	22	4.0	.65	.32	13	2.0
30	1.8	3.8	2.3	2.7	------	5.8	17	3.7	.60	.94	4.3	1.8
31	1.1	------	2.3	2.5	------	5.6	------	3.9	------	2.8	2.3	------
TOTAL	107.18	110.71	100.5	86.8	114.8	178.9	650.0	337.4	54.82	20.38	103.25	147.01
MEAN	3.46	3.69	3.24	2.80	4.10	5.77	21.7	10.9	1.83	.66	3.33	4.90
MAX	15	8.8	9.0	6.7	11	12	42	27	6.2	2.8	53	25
MIN	.48	.87	2.3	1.7	1.5	4.2	6.0	3.7	.60	.32	.23	.62
CFSM	1.15	1.23	1.08	.93	1.36	1.92	7.21	3.62	.61	.22	1.11	1.63
IN.	1.32	1.37	1.24	1.07	1.42	2.21	8.03	4.17	.68	.25	1.28	1.82

CAL YR 1970 TOTAL 1,846.17 MEAN 5.06 MAX 50 MIN .20 CFSM 1.68 IN 22.82
WTR YR 1971 TOTAL 2,011.75 MEAN 5.51 MAX 53 MIN .23 CFSM 1.83 IN 24.86

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8-28	0945	6.17	241				

NOTE.--No gage-height record Apr. 1 to May 13, May 15 to June 21.

01181000 West Branch Westfield River at Huntington, Mass.

LOCATION.--Lat 42°14'14", long 72°53'46", Hampshire County, on left bank at Huntington, 0.4 mile downstream from Roaring Brook and 1.5 miles upstream from mouth.

DRAINAGE AREA.--93.7 sq mi.

PERIOD OF RECORD.--September 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 388.60 ft above mean sea level.

AVERAGE DISCHARGE.--36 years, 178 cfs (25.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,780 cfs Aug. 28 (gage height, 5.75 ft); minimum, 8.6 cfs July 29.

Period of record: Maximum discharge, 26,100 cfs Aug. 19, 1955 (gage height, 15.27 ft), from rating curve extended above 9,500 cfs on basis of slope-area measurement of peak flow; minimum, 3.3 cfs Aug. 9, 1955, Nov. 27, 1957.

REMARKS.--Records good. Prior to 1950, some diurnal fluctuation at low flow caused by small mill above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	35	104	69	65	333	208	473	124	20	71	65
2	18	35	94	86	55	272	354	418	104	39	61	53
3	18	33	93	81	52	232	1,120	571	109	33	69	45
4	27	32	216	79	55	208	909	824	111	24	107	37
5	26	91	197	131	69	197	668	558	93	20	63	31
6	21	96	144	208	91	187	493	418	79	18	39	28
7	19	68	109	170	76	180	512	343	72	16	26	27
8	18	54	89	153	78	170	430	343	81	15	20	26
9	17	47	107	131	98	156	400	690	194	15	18	26
10	17	46	109	134	99	150	639	759	109	14	16	23
11	16	64	94	115	91	144	705	436	82	13	15	20
12	20	68	91	100	75	139	1,050	343	69	13	50	50
13	19	69	93	84	100	136	1,550	618	61	13	38	76
14	17	79	91	98	300	134	1,430	675	61	13	23	317
15	18	127	88	100	325	147	858	406	54	13	18	268
16	81	204	61	86	224	436	587	372	46	12	16	141
17	54	136	89	66	158	430	558	426	42	12	15	194
18	37	109	109	59	141	282	646	307	38	13	14	147
19	30	100	98	61	136	240	1,020	253	34	16	12	113
20	25	147	109	59	134	228	1,310	220	30	33	18	86
21	23	236	100	59	153	201	1,140	201	28	22	17	129
22	49	158	102	68	155	180	875	228	27	16	16	122
23	161	208	96	71	156	173	698	190	25	13	14	91
24	131	170	89	73	147	164	632	164	23	12	12	76
25	86	119	89	78	131	156	590	153	23	12	10	66
26	69	98	86	98	144	150	467	150	37	12	9.3	60
27	65	94	89	124	339	147	431	141	32	12	16	54
28	59	93	88	79	418	153	436	167	24	10	1,250	51
29	53	93	84	81	------	170	699	139	21	10	354	50
30	44	107	81	94	------	201	590	124	20	26	141	49
31	39	------	81	98	------	190	------	134	------	47	89	------
TOTAL	1,296	3,016	3,170	2,993	4,035	6,286	22,099	11,224	1,853	557	2,637.3	2,521
MEAN	41.8	101	102	96.5	144	203	737	362	61.8	18.0	85.1	84.0
MAX	161	236	216	208	418	436	1,550	824	194	47	1,250	317
MIN	16	32	61	59	52	134	208	124	20	10	9.3	20
CFSM	.45	1.08	1.09	1.03	1.54	2.17	7.87	3.86	.66	.19	.91	.90
IN.	.51	1.20	1.26	1.19	1.60	2.50	8.77	4.46	.74	.22	1.05	1.00

CAL YR 1970 TOTAL 61,204.9 MEAN 168 MAX 2,010 MIN 4.7 CFSM 1.79 IN 24.30
WTR YR 1971 TOTAL 61,687.3 MEAN 169 MAX 1,550 MIN 9.3 CFSM 1.80 IN 24.49

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	2030	4.84	2,700				
8-28	1215	5.75	3,780				

01183000 Westfield Little River at outlet of Cobble Mountain Reservoir, near Westfield, Mass.

LOCATION.--Lat 42°07'34", long 72°53'37", Hampden County, at Cobble Mountain Dam, 7.5 miles west of Westfield, and at mile 10.7.

DRAINAGE AREA.--45.8 sq mi.

PERIOD OF RECORD.--July 1905 to current year. Published as "near Blandford" 1905-11 and as "near Westfield" 1912-35.

GAGE.--Venturi meters at outlet tunnel at powerhouse 2.4 miles downstream. Prior to Mar. 1, 1910, nonrecording gage at site 0.2 mile upstream and Mar. 1, 1910, to Sept. 30, 1935, water-stage recorder at diversion dam 2.8 miles downstream.

AVEPAGE DISCHARGE.--61 years (1910-71), 87.7 cfs (26.00 inches per year), adjusted to present drainage area.

REMARKS.--Discharge computed on basis of flow through venturi meters and flow over reservoir spillway or through bypass tunnel. Flow regulated by Borden Brook Reservoir since 1910 and Cobble Mountain Reservoir since August 1931 (see p. 209); discharge adjusted for effect of this regulation. No flow over spillway or through bypass tunnel during year.

COOPERATION.--Records furnished by Springfield Board of Water Commissioners.

REVISIONS.--WSP 501: Drainage area.

MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

Month	Mean	Per square mile	Runoff in inches
October	14.2	0.31	0.36
November	53.3	1.16	1.30
December	38.6	.84	.97
Calendar year 1970	76.8	1.68	22.78
January	33.9	.74	.85
February	53.0	1.16	1.21
March	90.5	1.98	2.28
April	372	8.12	9.06
May	149	3.25	3.75
June	19.0	.41	.46
July	5.10	.11	.13
August	44.9	.98	1.13
September	32.9	.72	.80
Water year 1970-71	75.2	1.64	22.30

01183500 Westfield River near Westfield, Mass.

LOCATION.--Lat 42°06'24", long 72°41'58", Hampden County, on left bank 0.7 mile downstream from Great Brook, 3 miles east of Westfield, and 8.1 miles upstream from mouth.

DRAINAGE AREA.--497 sq mi.

PERIOD OF RECORD.--June 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 98.25 ft above mean sea level. Prior to Nov. 3, 1933, on right bank at same datum.

AVERAGE DISCHARGE.--57 years, 922 cfs (25.19 inches per year), adjusted for diversion and, since October 1931, for storage.

EXTREMES.--Current year: Maximum discharge, 6,190 cfs Apr. 14 (gage height, 9.83 ft); minimum, 58 cfs Aug. 27; minimum daily, 76 cfs July 13.
Period of record: Maximum discharge, 70,300 cfs Aug. 19, 1955 (gage height, 34.2 ft, from floodmarks), from rating curve extended above 18,000 cfs on basis of computations of flow over dam at gage heights 27.20, 29.40, and 34.2 ft; minimum, 9 cfs Oct. 2, 1921; minimum daily, 40 cfs Dec. 28, 29, 1914.

REMARKS.--Records excellent. Flow regulated by Borden Brook Reservoir, Cobble Mountain Reservoir since 1931, Knightville Reservoir since 1941, and Littleville Lake since 1965 (see p. 209). Diversion above station from Westfield Little River for municipal supply of Springfield. See table below for figures of diversion. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 601: 1924(M). WSP 756: Drainage area. WSP 1051: 1919-21(M), 1925(M). WSP 1231: 1915-16(M), 1920.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	198	490	326	350	1,470	1,160	2,220	725	388	321	481
2	127	190	445	345	370	1,410	1,420	2,010	591	335	256	346
3	122	192	432	334	350	1,100	2,970	2,340	564	328	281	278
4	165	187	585	368	320	995	3,220	4,060	588	229	372	256
5	154	262	948	443	300	907	3,210	3,200	551	187	353	228
6	170	418	651	563	305	799	2,910	2,540	390	167	250	204
7	154	324	521	582	310	816	2,460	1,880	534	147	204	198
8	134	265	391	570	320	894	2,150	1,650	592	127	149	192
9	137	265	422	495	350	749	1,770	2,730	722	244	142	207
10	122	234	425	445	341	682	2,400	3,880	592	144	107	190
11	100	240	408	441	341	687	2,830	2,590	469	130	116	187
12	107	314	396	432	336	654	3,550	2,100	411	109	113	308
13	134	294	399	405	379	645	4,440	2,370	285	76	234	463
14	113	342	410	379	595	641	5,350	3,840	328	109	170	695
15	134	392	377	374	792	676	4,040	2,250	304	113	120	964
16	201	715	342	360	762	1,140	3,320	1,710	295	86	109	685
17	314	610	333	350	739	1,800	2,510	1,950	269	109	105	571
18	213	468	384	340	675	1,560	2,550	1,570	231	105	96	600
19	201	414	384	325	598	1,190	3,010	1,350	249	110	82	454
20	228	549	459	320	609	1,100	4,470	1,210	208	170	137	376
21	170	886	446	320	644	1,030	4,750	1,030	237	160	154	380
22	237	808	399	320	645	960	3,980	1,080	219	152	142	495
23	432	725	434	315	673	901	3,070	983	298	127	130	392
24	645	772	405	310	678	893	2,780	852	222	105	105	335
25	432	553	408	320	633	883	2,740	779	250	100	94	253
26	356	450	399	330	618	769	2,220	742	301	102	94	253
27	278	432	411	380	892	765	1,980	701	346	109	154	222
28	269	405	368	450	1,310	783	2,000	746	250	102	1,600	237
29	253	409	385	410	-------	892	2,780	764	201	80	2,000	216
30	222	459	362	370	-------	1,060	2,850	557	353	240	1,950	222
31	192	-------	365	360	-------	1,170	-------	635	-------	338	1,250	-------
TOTAL	6,655	12,772	13,584	12,082	15,235	30,021	88,890	56,319	11,575	5,027	11,390	10,888
MEAN	215	426	438	390	544	968	2,963	1,817	386	162	367	363
MAX	645	886	948	582	1,310	1,800	5,350	4,060	725	388	2,000	964
MIN	100	187	333	310	300	641	1,160	557	201	76	82	187
(†)	62.9	57.5	50.4	48.6	50.2	51.5	51.5	60.2	87.8	83.3	70.7	67.6
MEAN‡	230	487	484	423	605	1,049	3,345	1,873	383	161	426	397
CFSM‡	.46	.98	.97	.85	1.22	2.11	6.73	3.77	.77	.32	.86	.80
IN.‡	.53	1.09	1.12	.98	1.27	2.43	7.51	4.35	.86	.37	.99	.89

CAL YR 1970 TOTAL 293,863 MEAN 805 MAX 5,090 MIN 75 MEAN‡ 853 CFSM‡ 1.72 IN‡ 23.30
WTR YR 1971 TOTAL 274,438 MEAN 752 MAX 5,350 MIN 76 MEAN‡ 820 CFSM‡ 1.65 IN‡ 22.40

† Diversion in cubic feet per second, from Westfield Little River for municipal supply of Springfield.
‡ Adjusted for diversion and for change in contents in Borden Brook, Cobble Mountain, and Knightville Reservoirs and Littleville Lake.

01184000 Connecticut River at Thompsonville, Conn.

(International Hydrological Decade River Station)

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, on right bank just upstream from Enfield Dam, 1 mile downstream from Thompsonville, 3 miles downstream from Massachusetts-Connecticut State line, and at mile 68.2.

DRAINAGE AREA.--9,661 sq mi.

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorders on river and on canal of Connecticut Light and Power Co. Datum of gage is 38.48 ft above mean sea level.

AVERAGE DISCHARGE.--43 years, 15,960 cfs (22.43 inches per year), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 78,400 cfs May 5 (gage height, 5.89 ft); minimum daily, 1,620 cfs July 11.
Period of record: Maximum discharge, 282,000 cfs Mar. 20, 1936 (gage height, 16.6 ft, from floodmarks); minimum daily, 968 cfs Oct. 20, 1963.

REMARKS.--Records good. Discharge includes water diverted around station by canal of Connecticut Light & Power Co. Flow regulated by powerplants, by diversion from Chicopee River basin (see table below), and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir (see p. 209), and other reservoirs (combined usable capacity, about 107 billion cubic feet). Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 891: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,910	4,050	9,470	5,420	4,860	12,800	15,000	54,300	14,100	5,500	4,610	8,460
2	8,420	4,150	11,200	4,110	5,610	14,200	15,600	50,800	12,600	7,130	4,910	5,990
3	8,440	5,290	10,600	3,730	5,820	14,800	20,300	51,200	11,100	7,210	5,770	6,120
4	6,970	6,190	11,200	4,310	5,920	14,500	29,400	61,100	11,300	2,680	7,360	6,620
5	5,420	5,730	13,700	5,590	5,920	13,300	34,700	74,900	9,020	1,970	9,380	3,480
6	8,950	6,750	13,000	6,050	5,190	13,200	34,300	76,600	7,330	2,110	7,870	2,260
7	8,770	6,120	8,490	5,530	4,230	12,800	32,500	71,000	6,850	2,490	7,700	3,560
8	8,340	4,300	9,640	5,710	3,970	10,900	31,800	63,000	10,000	2,850	2,970	5,650
9	9,130	4,850	9,760	5,980	6,660	10,500	27,900	59,300	10,100	4,420	3,570	5,850
10	8,020	4,450	9,410	5,110	7,100	12,000	27,100	58,500	9,760	2,470	6,400	5,410
11	4,230	4,290	8,490	5,530	7,210	13,000	30,500	55,500	10,400	1,620	4,790	2,660
12	3,800	6,060	9,040	5,280	6,760	11,900	36,800	51,700	8,770	2,170	4,750	4,300
13	6,390	7,040	5,450	5,600	6,300	11,500	46,200	51,500	5,390	2,490	4,380	7,170
14	6,260	7,940	6,080	6,250	6,020	9,990	55,300	57,000	7,380	2,520	2,400	6,680
15	6,130	6,250	8,960	5,570	6,380	9,710	63,500	54,700	7,160	2,960	1,850	8,340
16	7,130	6,980	7,920	4,670	6,430	13,400	59,800	47,300	5,840	3,230	2,720	7,430
17	7,690	9,210	7,410	3,430	7,910	17,600	49,000	41,700	4,710	2,760	3,440	8,430
18	8,810	10,100	6,970	5,070	10,600	22,300	43,800	35,000	4,400	2,130	2,950	6,910
19	7,790	9,390	6,850	6,620	11,100	20,800	40,500	30,700	3,830	2,930	3,210	5,180
20	7,510	10,700	6,220	6,410	9,660	20,000	45,500	26,500	2,890	7,000	3,180	5,690
21	9,010	9,440	7,330	6,300	8,820	20,300	57,900	21,300	3,470	4,400	2,300	7,210
22	8,590	9,730	8,420	6,190	8,120	19,700	67,100	21,200	5,770	3,730	1,750	5,860
23	8,600	10,500	7,130	5,760	10,100	18,800	70,100	21,500	5,110	4,180	2,980	5,540
24	9,070	12,800	6,390	4,480	10,700	18,000	66,900	21,500	4,300	3,430	4,150	6,330
25	8,050	13,900	5,890	4,010	9,660	15,800	60,200	19,100	5,770	1,990	2,970	4,670
26	7,760	12,000	6,070	5,920	9,740	15,000	53,000	18,600	5,680	2,690	3,600	2,550
27	9,520	11,600	7,050	5,910	9,850	14,500	48,400	19,000	7,500	5,220	4,930	3,130
28	9,140	9,860	7,760	6,300	12,500	11,700	46,900	20,400	4,880	4,070	13,000	4,250
29	9,140	7,740	7,340	6,020	------	11,000	48,100	19,400	4,990	2,130	18,800	3,730
30	8,680	7,330	6,820	4,850	------	13,400	54,400	17,100	4,790	2,810	17,200	3,600
31	6,320	------	6,620	4,350	------	14,600	------	16,700	------	4,990	15,200	------
TOTAL	238,990	233,740	256,680	166,060	213,140	452,000	1,312.5M	1,286.8M	215,190	108,280	181,090	163,060
MEAN	7,709	7,791	8,280	5,357	7,612	14,580	43,750	41,510	7,173	3,493	5,842	5,435
MAX	9,140	13,900	13,700	6,620	12,500	22,300	70,100	76,600	14,100	7,210	18,800	8,460
MIN	3,800	4,050	5,450	3,430	3,970	9,710	15,200	16,700	2,890	1,620	1,750	2,260
(†)	458	453	457	370	414	0	.67	0	136	454	458	456
MEAN‡	7,607	7,586	7,212	4,320	7,077	13,030	47,120	46,090	6,922	3,326	6,074	4,851
CFSM‡	.79	.79	.75	.45	.73	1.35	4.88	4.77	.72	.34	.63	.50
IN.‡	.91	.88	.86	.52	.76	1.56	5.44	5.50	.80	.40	.72	.56

CAL YR 1970 TOTAL 5,643,480 MEAN 15,460 MAX 77,200 MIN 1,440 MEAN‡ 15,600 CFSM‡ 1.61 IN‡ 21.92
WTR YR 1971 TOTAL 4,827,530 MEAN 13,230 MAX 76,600 MIN 1,620 MEAN‡ 13,450 CFSM‡ 1.39 IN‡ 18.90

† Diversion, in cubic feet per second, from Chicopee River basin to Wachusett Reservoir.

‡ Adjusted for change in contents in all reservoirs from First Connecticut and Second Connecticut Lakes to Borden Brook and Cobble Mountain Reservoirs on page 209 and for diversion from Chicopee River basin.

01185100 Fall River below Otis Reservoir, near Otis, Mass.

LOCATION.--Lat 42°09'42", long 73°03'48", Berkshire County, on right bank 0.4 mile downstream from Otis Reservoir, 0.5 mile upstream from mouth, and 2.6 miles southeast of Otis.

DRAINAGE AREA.--16.5 sq mi.

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,260 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, about 235 cfs Oct. 1-14; maximum gage height, 4.49 ft May 13 (backwater from beaver dam); minimum daily discharge, 1.1 cfs July 17, 18, 21-25.

Period of record: Maximum discharge, about 235 cfs Oct. 1-14, 1970; maximum gage height, 4.49 ft May 13, 1971 (backwater from beaver dam); minimum daily discharge, 1.1 cfs July 17, 18, 21-25, 1971.

REMARKS.--Records fair. Flow regulated by Otis Reservoir (see p. 209).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	2.9	12	4.0	3.1	3.2	3.1	110	2.1	1.3	1.4	60
2	235	2.9	24	4.0	3.1	3.2	58	74	2.0	1.6	2.2	115
3	235	2.9	24	4.0	3.1	3.2	150	2.8	2.0	1.5	2.8	110
4	235	2.9	24	4.0	3.1	3.2	95	2.8	2.2	1.4	2.6	35
5	235	2.9	24	51	3.1	3.2	3.1	2.8	2.0	1.4	2.5	3.0
6	235	2.9	24	90	3.1	3.2	3.1	2.7	1.9	1.4	2.4	3.0
7	235	2.9	24	90	3.1	3.2	3.0	2.7	1.8	1.3	2.3	2.9
8	120	2.9	58	90	3.1	3.2	3.0	2.7	2.1	1.3	2.2	2.9
9	235	2.9	92	90	3.1	3.2	3.0	2.7	2.0	1.3	2.1	2.8
10	235	2.9	92	90	3.1	3.2	3.0	19	1.9	1.2	2.0	2.7
11	235	2.9	42	50	3.1	3.2	3.0	60	1.8	1.2	2.1	3.0
12	235	2.9	7.0	3.0	3.1	3.2	3.0	60	1.7	1.2	2.2	10
13	235	2.9	7.0	3.0	3.1	3.2	3.0	105	1.7	1.2	2.1	60
14	140	2.9	7.0	3.0	3.1	3.2	3.0	135	1.6	1.3	2.0	100
15	92	2.9	7.0	3.0	3.1	3.2	3.0	110	1.6	1.2	1.9	26
16	92	11	7.0	3.0	3.1	3.2	2.9	110	1.6	1.2	1.9	25
17	92	24	7.0	3.0	47	3.2	2.9	70	1.5	1.1	1.8	24
18	92	39	18	3.0	90	3.2	2.9	2.6	1.5	1.1	1.8	23
19	92	89	24	3.0	90	3.2	2.9	2.6	1.5	1.2	1.7	22
20	92	110	24	3.0	90	3.2	35	2.6	1.5	1.2	2.0	21
21	92	110	24	3.0	90	3.2	130	2.5	1.4	1.1	1.9	20
22	36	110	24	3.0	52	3.2	130	2.5	1.4	1.1	1.8	19
23	2.9	110	24	3.0	60	3.2	130	2.4	1.4	1.1	1.8	18
24	2.9	110	24	3.0	90	3.2	130	13	1.4	1.1	1.7	17
25	2.9	43	24	3.0	90	3.2	130	33	1.6	1.1	1.7	16
26	2.9	2.9	24	3.1	43	3.2	110	48	1.8	1.2	1.6	16
27	2.9	2.9	24	3.1	3.1	3.2	85	60	1.6	1.3	6.0	15
28	2.9	2.9	12	3.1	3.1	3.2	85	60	1.5	1.2	13	15
29	2.9	2.9	4.0	3.1	------	3.1	100	60	1.4	1.2	20	14
30	2.9	2.9	4.0	3.1	------	3.1	110	60	1.4	1.4	25	14
31	2.9	------	4.0	3.1	------	3.1	------	46	------	1.5	30	------
TOTAL	3,731.1	813.0	740.0	627.6	797.8	98.9	1,525.9	1,267.4	50.9	38.9	146.5	815.3
MEAN	120	27.1	23.9	20.2	28.5	3.19	50.9	40.9	1.70	1.25	4.73	27.2
MAX	235	110	92	90	90	3.2	150	135	2.2	1.6	30	115
MIN	2.9	2.9	4.0	3.0	3.1	3.1	2.9	2.4	1.4	1.1	1.4	2.7

CAL YR 1970 TOTAL 10,537.6 MEAN 28.9 MAX 235 MIN 1.9
WTR YR 1971 TOTAL 10,653.3 MEAN 29.2 MAX 235 MIN 1.1

NOTE.--No gage-height record Oct. 1 to Nov. 4, May 19 to June 23, Sept. 6-21. Stage-discharge relation indefinite Nov. 5 to May 18, June 24 to Sept. 5, Sept. 22-30.

01185500 West Branch Farmington River near New Boston, Mass.

LOCATION.--Lat 42°04'45", long 73°04'24", Berkshire County, on left bank 5 ft downstream from highway bridge, 0.3 mile downstream from Clam River, 1 mile south of New Boston, and at mile 65.0.

DRAINAGE AREA.--92.0 sq mi.

PERIOD OF RECORD.--May 1913 to current year. Prior to October 1948, published as Farmington River near New Boston.

GAGE.--Water-stage recorder. Datum of gage is 758.21 ft above mean sea level.

AVERAGE DISCHARGE.--58 years, 177 cfs (26.13 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,340 cfs Aug. 28 (gage height, 5.69 ft); minimum daily, 9.5 cfs July 29.
Period of record: Maximum discharge, 34,300 cfs Aug. 19, 1955 (gage height, 14.06 ft), from rating curve extended above 9,600 cfs on basis of slope-area measurement of peak flow; minimum daily, 2.4 cfs Aug. 20, 21, 1957.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Otis Reservoir 7.0 miles upstream on Fall River (see p. 209).

REVISIONS (WATER YEARS).--WSP 641: 1924(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1914.

DISCHARGE, IN CUBIC FFET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	48	122	70	57	251	152	536	91	20	49	109
2	299	46	137	75	54	221	282	448	76	36	78	159
3	300	44	137	72	52	189	720	426	89	30	101	148
4	321	45	195	70	50	177	675	591	116	24	120	119
5	304	104	190	160	58	167	486	501	94	21	82	35
6	297	100	150	260	71	155	380	377	73	20	58	31
7	287	78	120	230	64	148	377	298	56	19	43	28
8	183	68	130	210	79	141	331	278	60	18	33	25
9	270	61	150	200	84	131	304	467	89	17	27	23
10	267	59	160	195	76	120	395	587	76	15	23	21
11	260	68	120	140	70	114	428	467	60	15	23	19
12	254	72	80	86	64	109	578	359	51	15	33	46
13	251	73	85	74	84	105	792	533	45	14	24	100
14	182	88	82	84	240	104	868	683	41	16	21	320
15	131	139	80	86	260	119	671	498	37	17	19	189
16	182	195	70	74	185	280	561	478	35	13	18	156
17	166	170	90	58	170	287	465	436	32	11	15	174
18	150	150	105	53	210	224	478	263	31	11	13	150
19	141	186	105	54	195	193	598	206	29	14	11	127
20	133	245	110	54	190	186	753	175	27	21	18	108
21	125	336	105	54	200	160	854	157	25	16	27	158
22	110	270	105	53	170	144	764	175	23	13	26	152
23	172	359	105	53	190	135	662	152	23	11	22	117
24	146	293	100	52	200	124	602	134	21	11	16	95
25	107	196	100	52	190	120	580	147	24	13	13	78
26	87	118	98	85	170	116	508	161	63	13	12	82
27	77	107	100	100	232	111	427	164	42	12	34	57
28	67	106	90	90	280	111	411	163	29	9.6	639	51
29	61	106	75	75	------	121	597	155	25	9.5	397	82
30	54	120	72	70	------	140	629	154	21	16	212	84
31	52	------	71	62	------	143	------	150	------	42	129	------
TOTAL	5,667	4,050	3,479	3,051	3,945	4,846	16,328	10,319	1,514	533.1	2,336	3,043
MEAN	183	135	112	98.4	141	156	544	333	50.5	17.2	75.4	101
MAX	321	359	195	260	280	287	868	683	116	42	639	320
MIN	52	44	70	52	50	104	152	134	21	9.5	11	19
MEAN†	6.02	1.39	111	96.1	141	193	609	354	51.9	17.2	85.4	97.0
CPSM†	.65	1.51	1.21	1.04	1.53	2.10	6.62	3.85	.56	.19	.93	1.05
IN.†	.75	1.68	1.39	1.20	1.60	2.42	7.39	4.44	.63	.22	1.07	1.18

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CAL YR 1970   TOTAL 57,283     MEAN 157   MAX 989   MIN 11     MEAN†  157    CFSM†  1.71    IN†  23.10
WTR YR 1971   TOTAL 59,111.1   MEAN 162   MAX 868   MIN  9.5   MEAN†  162    CFSM†  1.76    IN†  23.97
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† Adjusted for change in contents in Otis Reservoir.

Reservoirs in Connecticut River basin

01127850; 01128000. FIRST CONNECTICUT AND SECOND CONNECTICUT LAKES on Connecticut River are operated as a unit for storage of water for power and are used for recreation. The downstream order and usable capacity of each are as follows: Second Lake, 12 miles northeast of Pittsburg, N.H., 506,000,000 cu ft; First Lake, 5.6 miles northeast of Pittsburg, N.H., 3,330,000,000 cu ft. Records furnished by New England Power Co.

01129000. LAKE FRANCIS on Connecticut River at Pittsburg, N.H., completed in March 1940, used for storage of water for power and for recreation, has usable capacity of 4,326,000,000 cu ft. Records furnished by New Hampshire Water Resources Board.

01132000; 01132500. MOORE AND COMERFORD RESERVOIRS on Connecticut River are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Moore Reservoir, 4.5 miles northwest of Littleton, N.H., filled in April 1956, 4,970,000,000 cu ft; Comerford Reservoir, 5 miles northeast of Munroe, N.H., completed in 1930, 1,279,000,000 cu ft. Records furnished by New England Power Co.

01141000. UNION VILLAGE RESERVOIR on Ompompanoosuc River, 0.3 mile north of Union Village, Vt., completed in 1949 for flood control, has usable capacity of 1,660,000,000 cu ft. Records furnished by Corps of Engineers.

01148000; 01150000. LAKES AND PONDS IN MASCOMA RIVER BASIN.--These reservoirs are operated as a unit for storage of water for power and are used for recreation. The reservoirs and usable capacity of each are as follows: 01148000. Goose Pond, 5.2 miles northeast of Mascoma, N.H., 509,000,000 cu ft; Grafton Pond, 8.5 miles southeast of Mascoma, 144,000,000 cu ft; Crystal Lake, 5.8 miles southeast of Mascoma, 75,000,000 cu ft; 01150000. Mascoma Lake at Mascoma, 337,000,000 cu ft; total usable capacity of the four reservoirs, 1,060,000,000 cu ft. Records furnished by New England Power Co. prior to January 1970 and by New Hampshire Water Resources Board thereafter.

01151400. NORTH HARTLAND LAKE on Ottauquechee River at North Hartland, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 3,110,000,000 cu ft. Records furnished by Corps of Engineers.

01152000. SUNAPEE LAKE on Sugar River at Sunapee, N.H., used for recreation and storage of water for power, has usable capacity of 862,000,000 cu ft. Records collected by Geological Survey.

01152900. NORTH SPRINGFIELD LAKE on Black River at North Springfield, Vt., completed in 1960, used for flood control and recreation, has usable capacity of 2,230,000,000 cu ft. Records furnished by Corps of Engineers.

01155400. BALL MOUNTAIN LAKE on West River, 2 miles north of Jamaica, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 2,380,000,000 cu ft. Records furnished by Corps of Engineers.

01155900. TOWNSHEND LAKE on West River, 1.8 miles northwest of Townshend, Vt., completed in 1961, used for flood control and recreation, has usable capacity of 1,460,000,000 cu ft. Records furnished by Corps of Engineers.

01157500. SURRY MOUNTAIN LAKE on Ashuelot River, 4.5 miles north of Keene, N.H., completed in 1942, used for flood control and recreation, has usable capacity of 1,420,000,000 cu ft. Records furnished by Corps of Engineers.

01158550. OTTER BROOK LAKE on Otter Brook, 2.5 miles northeast of Keene, N.H., completed in 1958, used for flood control and recreation, has usable capacity of 798,000,000 cu ft. Records furnished by Corps of Engineers.

01163500. BIRCH HILL RESERVOIR on Millers River, 1 mile east of South Royalston, Mass., completed in 1941 for flood control, has usable capacity of 2,180,000,000 cu ft. Records furnished by Corps of Engineers.

01164500. TULLY RESERVOIR on East Branch Tully River, 3.5 miles north of Athol, Mass., completed in 1948 for flood control, has usable capacity of 958,000,000 cu ft. Records furnished by Corps of Engineers.

01167490; 01168000. SOMERSET AND HARRIMAN RESERVOIRS in Deerfield River basin are operated as a unit for storage of water for hydroelectric power development and are used for recreation. The downstream order and usable capacity of each are as follows: Somerset Reservoir on East Branch Deerfield River, 2.5 miles northeast of Somerset, Vt., completed in 1913, 2,500,000,000 cu ft; Harriman Reservoir on Deerfield River at Davis Bridge, Vt., completed in 1924, 5,060,000,000 cu ft. Records furnished by New England Power Co.

01172400. BARRE FALLS RESERVOIR on Ware River, 4 miles east of Barre, Mass., completed in 1958 for flood control, has usable capacity of 1,050,000,000 cu ft. Records furnished by Corps of Engineers.

01175000. QUABBIN RESERVOIR on Swift River, 3.2 miles east of Belchertown, Mass., completed in August 1939 for storage of water for municipal supply, has usable capacity of 53,800,000,000 cu ft. Records furnished by Water Division, Metropolitan District Commission.

01176410. CONANT BROOK RESERVOIR in Chicopee River basin, 1.5 miles southeast of South Monson, Mass., completed in September 1966 for flood control, has usable capacity of 163,000,000 cu ft. Records furnished by Corps of Engineers.

01176500. LUDLOW RESERVOIR in Chicopee River basin, 3.2 miles northwest of Three Rivers, Mass., completed in 1875 for storage of water for municipal supply, has usable capacity of 201,000,000 cu ft. Records furnished by Board of Water Commissioners, Springfield, Mass.

01179000. KNIGHTVILLE RESERVOIR on Westfield River, 4 miles north of Huntington, Mass., completed in 1941 for flood control, has usable capacity of 2,130,000,000 cu ft. Records furnished by Corps of Engineers.

01180450. LITTLEVILLE LAKE on Middle Branch Westfield River, 2 miles north of Huntington, Mass., completed in 1965, used for flood control, water supply, and recreation, has usable capacity of 1,410,000,000 cu ft. Records furnished by Corps of Engineers.

01181900; 01182500. BORDEN BROOK AND COBBLE MOUNTAIN RESERVOIRS in Westfield Little River basin are operated as a unit for storage of water for municipal supply and for hydroelectric power development. The downstream order and usable capacity of each are as follows: Borden Brook Reservoir on Borden Brook, 3.5 miles south of Blandford, Mass., completed in 1909, 344,000,000 cu ft; Cobble Mountain Reservoir on Westfield Little River, 6.5 miles west of Westfield, Mass., completed in 1931, 3,050,000,000 cu ft. Records furnished by Board of Water Commissioners, Springfield, Mass.

01185000. OTIS RESERVOIR in Farmington River basin, 1 mile northeast of Cold Spring, Mass., completed in 1865, used for storage of water for power and for recreation, has usable capacity of 780,000,000 cu ft. Records furnished by Massachusetts Department of Natural Resources, Division of Forests and Parks.

Reservoirs in Connecticut River basin--Continued

MONTHEND USABLE CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

Date	First and Second Connecticut Lakes	Lake Francis	Moore and Comerford Reservoirs	Union Village Reservoir	Lakes and ponds in Mascoma River basin	North Hartland Lake
Sept. 30, 1970	3,319.3	3,569.7	5,507.1	1.3	858.6	129.0
Oct. 31	3,187.6	3,954.1	5,828.8	1.4	561.5	119.0
Nov. 30	2,610.9	3,528.7	6,189.6	7.8	592.1	130.0
Dec. 31	2,118.9	2,156.3	5,629.3	19.1	670.7	23.1
Jan. 31, 1971	1,595.7	1,328.4	5,136.9	17.5	638.4	22.9
Feb. 28	1,014.7	802.7	4,859.4	14.7	542.6	25.3
Mar. 31	58.1	299.7	2,130.6	11.2	370.2	24.8
Apr. 30	860.3	1,365.4	2,542.5	12.3	955.9	23.6
May 31	3,401.4	3,463.6	6,065.3	2.1	1,166.1	22.7
June 30	3,459.6	3,877.7	5,551.9	1.4	1,067.4	22.7
July 31	3,386.6	3,852.4	5,647.4	1.4	991.8	6.2
Aug. 31	3,234.5	3,776.8	6,182.9	1.9	931.5	24.8
Sept. 30	3,225.1	3,594.3	5,608.3	1.4	834.5	22.5

	Sunapee Lake	North Springfield Lake	Ball Mountain Lake	Townshend Lake	Surry Mountain Lake	Otter Brook Lake
Sept. 30, 1970	348	1.3	127.2	38.0	59.8	33.0
Oct. 31	345	24.7	.9	.6	64.5	33.0
Nov. 30	332	26.9	15.6	41.8	69.3	34.0
Dec. 31	332	24.7	13.0	40.0	73.1	35.1
Jan. 31, 1971	313	24.7	13.9	110.6	79.5	29.6
Feb. 28	352	26.2	21.9	40.4	92.8	39.3
Mar. 31	196	24.7	15.2	42.2	64.5	29.6
Apr. 30	651	36.3	51.3	44.8	98.3	38.6
May 31	638	29.1	55.2	40.4	66.9	34.0
June 30	546	71.8	71.7	38.3	58.6	32.6
July 31	423	86.6	65.3	38.3	59.8	30.2
Aug. 31	496	95.7	73.9	40.0	63.4	33.7
Sept. 30	230	94.6	84.8	38.0	58.6	32.3

	Birch Hill Reservoir	Tully Reservoir	Somerset and Harriman Reservoirs	Barre Falls Reservoir	Quabbin Reservoir†	Conant Brook Reservoir
Sept. 30, 1970	2.5	0.2	5,469.0	2.2	33,187	0
Oct. 31	3.0	13.5	5,116.7	2.4	32,000	0
Nov. 30	2.8	35.3	4,733.4	2.6	31,183	.1
Dec. 31	2.5	40.8	3,934.4	2.4	30,364	0
Jan. 31, 1971	3.3	36.8	2,666.2	2.2	29,735	.1
Feb. 28	4.5	41.6	2,107.8	11.2	29,423	.1
Mar. 31	9.0	12.3	1,355.9	3.4	30,535	.1
Apr. 30	13.4	57.4	3,469.8	3.4	32,826	.2
May 31	3.0	64.0	6,275.8	2.6	33,989	.1
June 30	2.2	61.8	6,035.2	2.6	33,669	0
July 31	2.3	60.7	5,943.2	2.4	32,546	.1
Aug. 31	2.7	61.8	6,111.1	2.4	31,427	.1
Sept. 30	2.2	23.0	5,662.8	2.2	30,426	0

	Ludlow Reservoir	Knightville Reservoir	Littleville Lake	Borden Brook and Cobble Mountain Reservoirs	Otis Reservoir
Sept. 30, 1970	154.5	0.1	415.9	2,417.5	680.3
Oct. 31	175.8	.1	417.2	2,289.7	352.0
Nov. 30	179.4	.2	421.1	2,296.6	361.2
Dec. 31	161.5	10.5	419.8	2,275.8	358.2
Jan. 31, 1971	161.5	13.0	419.8	2,231.0	352.0
Feb. 28	175.8	20.5	431.5	2,237.8	352.0
Mar. 31	179.4	.8	426.3	2,341.4	451.3
Apr. 30	175.8	7.0	444.5	3,173.8	619.5
May 31	174.1	.4	422.4	3,192.7	676.5
June 30	154.5	.1	415.9	2,963.6	680.3
July 31	144.2	.2	417.2	2,735.5	680.3
Aug. 31	152.8	5.6	432.8	2,682.2	707.2
Sept. 30	163.2	.1	417.2	2,615.2	695.7

† Affected by diversion from Ware River and diversion to Wachusett Reservoir and Chicopee Valley aqueduct.

01197000 East Branch Housatonic River at Coltsville, Mass.

LOCATION.--Lat 42°28'10", long 73°11'49", Berkshire County, on right bank 40 ft downstream from Hubbard Avenue Bridge at Coltsville, 1.2 miles upstream from Unkamet Brook, and 2 miles northeast of Pittsfield.

DRAINAGE AREA.--57.1 sq mi.

PERIOD OF RECORD.--March 1936 to current year. Prior to October 1945, published as Housatonic River at Coltsville.

GAGE.--Water-stage recorder. Datum of gage is 993.49 ft above mean sea level.

AVERAGE DISCHARGE.--35 years, 109 cfs (25.92 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 1,080 cfs Aug. 28 (gage height, 4.36 ft); minimum daily, 12 cfs Aug. 20.
Period of record: Maximum discharge, 6,400 cfs Sept. 21, 1938 (gage height, 10.80 ft), from rating curve extended above 2,300 cfs on basis of computation of peak flow over dam; minimum daily, 4.4 cfs Aug. 15, 1936.
Maximum discharge since at least 1755, that of Sept. 21, 1938.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Flow regulated by powerplants above station and, since 1949, by Cleveland Brook Reservoir (usable capacity, 214,000,000 cubic feet) 5.4 miles upstream; regulation greater prior to 1955. Diversion above station from Cleveland Brook Reservoir for municipal supply of Pittsfield since May 1950; see table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 851: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	28	40	31	26	108	68	277	71	62	36	40
2	26	27	40	32	25	104	92	249	57	98	36	34
3	33	27	39	32	25	96	205	339	55	43	52	31
4	44	27	60	37	25	77	227	628	55	31	60	27
5	35	35	80	50	27	69	205	339	46	26	45	29
6	31	55	60	62	30	75	172	227	39	29	31	29
7	29	46	48	62	29	75	148	205	39	29	25	32
8	29	42	41	55	30	72	130	214	82	24	21	35
9	29	38	40	44	32	69	121	339	169	22	21	35
10	26	35	43	42	30	66	156	378	96	20	20	32
11	24	38	40	43	29	68	180	260	52	17	31	30
12	23	42	36	42	29	68	256	202	43	17	57	61
13	25	[illegible]	35	37	32	65	414	322	39	17	38	68
14	32	50	37	38	60	62	511	428	39	19	25	89
15	55	65	37	38	56	71	291	236	36	18	20	87
16	60	60	33	33	52	123	214	185	34	17	21	70
17	45	52	36	32	50	141	177	185	31	17	20	66
18	38	46	38	32	50	119	182	144	28	14	20	65
19	33	41	37	31	52	100	256	127	25	23	19	55
20	30	47	38	31	54	92	450	116	23	27	12	52
21	27	54	43	32	62	94	470	112	24	20	18	84
22	30	62	42	32	66	78	295	123	27	17	17	79
23	45	56	40	31	66	72	260	110	24	15	20	62
24	41	50	37	30	66	66	307	100	23	14	19	50
25	38	46	36	29	63	62	310	92	27	14	18	43
26	35	43	37	32	65	62	249	82	43	13	18	41
27	33	41	36	35	85	62	236	77	27	15	23	43
28	32	44	38	33	102	60	256	75	24	13	485	42
29	31	43	38	31	------	66	347	62	23	25	371	45
30	30	41	36	29	------	72	331	55	22	46	149	44
31	29	------	32	27	------	71	------	75	------	40	65	------
TOTAL	1,045	1,325	1,273	1,145	1,318	2,485	7,516	6,363	1,323	802	1,813	1,500
MEAN	33.7	44.2	41.1	36.9	47.1	80.2	251	205	44.1	25.9	58.5	50.0
MAX	60	65	80	62	102	141	511	628	169	98	485	89
MIN	23	27	32	27	25	60	68	55	22	13	12	27
(†)	13.6	10.3	12.3	10.3	11.4	10.6	13.3	11.0	11.4	15.4	11.2	15.2

CAL YR 1970 TOTAL 30,787 MEAN 84.3 MAX 709 MIN 12 MEAN‡ 96.1 CFSM‡ 1.68 IN‡ 22.85
WTR YR 1971 TOTAL 27,908 MEAN 76.5 MAX 628 MIN 12 MEAN‡ 88.6 CFSM‡ 1.55 IN‡ 21.07

PEAK DISCHARGE (BASE, 1,150 CFS).--No peak above base.

† Diversion, in cubic feet per second, from Cleveland Brook Reservoir for municipal supply of Pittsfield; records furnished by city of Pittsfield.
‡ Adjusted for diversion.
NOTE.--No gage-height record Oct. 16 to Dec. 8, Jan. 18 to Feb. 24.

01197300 Marsh Brook at Lenox, Mass.

LOCATION.--Lat 42°20'59", long 73°17'56", Berkshire County, on left bank 15 ft downstream from culvert on Hawthorne Street and 1.0 mile southwest of Lenox.

DRAINAGE AREA.--2.19 sq mi.

PERIOD OF RECORD.--December 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 990 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 4.28 cfs (26.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 104 cfs June 8 (gage height, 3.27 ft), from rating curve extended above 23 cfs; maximum gage height, 3.55 ft Mar. 4 (backwater from ice); minimum discharge, 0.06 cfs July 29.

Period of record: Maximum discharge, 122 cfs July 18, 1965 (gage height, 2.75 ft), from rating curve extended above 33 cfs; maximum gage height, 4.07 ft Jan. 28, 1969 (backwater from ice); no flow at times during 1963, 1964, 1965, and 1970.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since May 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.31	.52	.94	1.0	.96	7.6	7.6	6.7	37	2.6	.56	1.8
2	.31	.46	.83	1.0	.93	7.1	12	5.7	31	1.2	.95	1.4
3	.57	.46	.72	1.0	.90	5.7	20	8.0	30	.84	1.2	1.2
4	.52	.46	2.7	1.5	.86	4.9	19	11	24	.64	1.1	1.1
5	.46	.67	3.2	2.0	.84	5.2	17	9.4	13	.49	.74	.95
6	.46	.57	2.6	2.6	.84	5.0	15	8.5	11	.56	.56	.84
7	.46	.57	2.1	2.4	.84	4.9	16	7.6	8.9	.49	.43	.74
8	.46	.52	1.8	2.1	.95	3.9	14	7.1	15	.37	.37	.64
9	.41	.52	1.6	1.7	1.2	3.5	13	9.4	8.5	.32	.32	.64
10	.41	.52	1.4	1.6	1.2	3.9	15	10	6.0	.28	.28	.64
11	.41	.67	1.2	1.6	1.2	3.2	15	8.5	4.2	.24	7.6	.74
12	.41	.62	1.2	1.6	1.2	3.2	16	7.1	3.5	.24	5.3	2.3
13	.41	.62	1.2	1.4	2.5	2.6	17	12	3.2	.20	2.6	1.6
14	.41	.62	1.2	1.5	9.0	2.9	18	11	2.3	.28	1.4	4.2
15	1.0	.94	1.2	1.5	7.0	3.9	16	10	1.8	.20	1.1	3.2
16	.83	1.3	1.1	1.3	5.3	8.9	13	9.4	1.4	.28	.74	2.9
17	.72	1.2	1.2	1.2	4.2	9.4	11	9.4	1.2	.32	.43	3.2
18	.72	.94	1.2	1.1	3.9	6.7	9.8	7.1	.95	.32	.43	3.2
19	.72	1.0	1.2	1.0	3.9	6.7	9.4	5.7	.84	2.6	.32	2.3
20	.62	1.2	1.3	1.0	3.9	7.6	9.4	12	.64	.84	.95	2.0
21	.62	1.5	1.4	1.1	4.6	5.3	8.9	53	.56	.56	.64	5.7
22	.83	1.3	1.4	1.1	4.9	4.6	8.5	62	.43	.49	.56	3.5
23	.83	2.0	1.3	1.0	4.9	4.6	8.0	58	.37	.37	.49	2.9
24	.83	1.6	1.2	1.0	3.9	4.2	6.7	53	.32	.28	.37	2.6
25	.72	1.4	1.2	1.1	2.9	3.2	6.7	49	1.6	.37	.32	2.3
26	.67	1.2	1.2	1.2	3.2	2.9	6.7	47	.95	.16	.28	1.8
27	.62	1.0	1.2	1.3	7.6	2.9	5.7	47	.56	.09	.64	1.8
28	.57	1.0	1.3	1.2	8.5	3.2	5.3	45	.49	.09	10	1.6
29	.57	1.0	1.3	1.1	------	4.2	7.1	39	.43	1.6	4.9	1.4
30	.52	1.0	1.2	1.1	------	4.9	7.6	36	.43	.56	3.5	1.2
31	.52	------	1.1	1.0	------	5.7	------	43	------	.95	2.6	------
TOTAL	17.92	27.38	43.69	42.3	92.12	152.5	354.4	707.6	210.57	18.83	51.68	60.39
MEAN	.58	.91	1.41	1.36	3.29	4.92	11.8	22.8	7.02	.61	1.67	2.01
MAX	1.0	2.0	3.2	2.6	9.0	9.4	20	62	37	2.6	10	5.7
MIN	.31	.46	.72	1.0	.84	2.6	5.3	5.7	.32	.09	.28	.64
CFSM	.26	.42	.64	.62	1.50	2.25	5.39	10.4	3.21	.28	.76	.92
IN.	.30	.47	.74	.72	1.56	2.59	6.02	12.02	3.58	.32	.88	1.03

CAL YR 1970 TOTAL 1,312.42 MEAN 3.60 MAX 31 MIN 0 CFSM 1.64 IN 22.29
WTR YR 1971 TOTAL 1,779.38 MEAN 4.88 MAX 62 MIN .09 CFSM 2.23 IN 30.23

PEAK DISCHARGE (BASE, 45 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-21	1315	3.11	64				
6-8	1745	3.27	104				
8-11	2000	3.07	56				

01197500 Housatonic River near Great Barrington, Mass.

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, on left bank at upstream side of highway bridge at Van Deusenville, 0.5 mile upstream from Williams River and 2 miles north of Great Barrington.

DRAINAGE AREA.--280 sq mi.

PERIOD OF RECORD.--May 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft above mean sea level. Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--58 years, 507 cfs (24.59 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,110 cfs Apr. 15 (gage height, 5.80 ft); minimum daily, 91 cfs July 23.
Period of record: Maximum discharge, 12,200 cfs Jan. 1, 1949 (gage height, 12.08 ft), from rating curve extended above 5,300 cfs on basis of computations of flow over dams at gage heights 11.72 and 12.08 ft; minimum daily, 1.0 cfs Oct. 18, 1914.

REMARKS.--Records good. Regulation at low flow by powerplants above station. Records of chemical analyses and suspended-sediment loads for the water year 1971 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M), 1917-27(M), 1929-31(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	195	244	195	150	813	626	1,390	422	143	288	428
2	118	202	248	188	158	770	798	1,270	383	313	266	327
3	116	181	228	199	158	693	1,370	1,260	361	388	251	285
4	165	162	287	195	152	594	1,620	1,570	372	256	400	255
5	198	198	394	269	162	496	1,610	1,720	340	189	347	234
6	158	296	335	366	171	509	1,440	1,610	305	163	263	217
7	147	260	265	335	168	509	1,360	1,330	274	162	216	205
8	120	240	220	296	171	503	1,350	1,160	265	165	178	192
9	109	228	224	269	174	458	1,240	1,280	587	154	165	197
10	104	206	232	256	171	422	1,290	1,490	600	165	117	193
11	107	232	228	244	162	416	1,350	1,480	410	164	131	182
12	107	232	228	236	162	394	1,440	1,260	320	155	239	206
13	98	236	213	209	164	388	1,630	1,220	278	151	289	344
14	98	244	209	206	355	377	2,010	1,580	256	137	215	497
15	114	248	209	228	398	416	2,010	1,570	240	136	171	623
16	305	366	206	215	355	764	1,760	1,350	228	137	148	535
17	274	350	213	200	320	1,020	1,520	1,170	211	135	137	453
18	209	283	240	190	305	843	1,340	1,060	201	134	129	427
19	171	240	236	190	315	735	1,310	880	182	168	126	387
20	178	252	248	185	335	659	1,480	749	170	193	126	330
21	123	325	244	195	372	633	1,660	672	173	192	134	407
22	147	340	236	202	372	574	1,730	721	134	173	142	477
23	188	355	236	198	372	555	1,570	653	150	91	128	416
24	232	366	244	181	372	548	1,380	613	148	99	125	289
25	213	305	228	168	355	516	1,350	581	150	128	121	330
26	224	248	216	188	340	496	1,320	574	177	129	118	311
27	181	220	209	200	490	496	1,250	535	203	138	122	309
28	198	216	202	190	728	496	1,190	574	162	144	586	288
29	206	224	198	184	------	529	1,290	516	148	107	1,360	293
30	216	236	195	191	------	607	1,420	410	136	122	1,360	259
31	206	------	195	190	------	620	------	394	------	256	789	------
TOTAL	5,177	7,676	7,310	6,757	7,912	17,869	42,714	32,672	7,986	5,187	9,187	9,886
MEAN	167	256	236	218	283	576	1,424	1,054	266	167	296	330
MAX	305	366	394	366	728	1,020	2,010	1,720	600	388	1,360	623
MIN	98	162	195	168	150	377	626	394	134	91	117	182
CFSM	.60	.91	.84	.78	1.01	2.06	5.09	3.76	.95	.60	1.06	1.18
IN.	.69	1.02	.97	.90	1.05	2.37	5.67	4.34	1.06	.69	1.22	1.31

CAL YR 1970 TOTAL 157,101 MEAN 430 MAX 3,200 MIN 71 CFSM 1.54 IN 20.87
WTR YR 1971 TOTAL 160,333 MEAN 439 MAX 2,010 MIN 91 CFSM 1.57 IN 21.30

PEAK DISCHARGE (BASE, 2,400 CFS).--No peak above base.

01198000 Green River near Great Barrington, Mass.

LOCATION.--Lat 42°11'31", long 73°23'28", Berkshire County, on left bank 250 ft downstream from Hurlburt Street highway bridge, 0.2 mile downstream from Seekonk Brook, 1.5 miles west of Great Barrington, and 3 miles upstream from mouth.

DRAINAGE AREA.--51.0 sq mi.

PERIOD OF RECORD.--October 1951 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 690 ft (from topographic map).

AVERAGE DISCHARGE.--20 years, 79.4 cfs (21.14 inches per year).

EXTREMES.--Current year: Maximum discharge, 648 cfs Apr. 13 (gage height, 5.37 ft); minimum, 5.6 cfs Aug. 25, 26, 27.
Period of record: Maximum discharge, 2,120 cfs Mar. 31, 1960 (gage height, 7.83 ft); minimum, 2.7 cfs Sept. 21-25, Oct. 13-18, 1964.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1701: 1956(M). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	17	39	31	27	230	119	126	69	13	11	14
2	7.4	17	38	30	26	210	185	114	59	20	11	13
3	10	16	37	30	25	190	495	141	59	15	21	12
4	13	16	60	31	25	179	480	272	55	12	17	11
5	10	27	66	46	27	155	399	243	49	11	13	10
6	9.0	31	56	55	30	148	325	192	43	11	11	9.6
7	8.4	26	49	49	29	148	332	167	39	10	10	9.6
8	8.0	21	41	47	31	139	292	164	36	9.6	8.7	9.2
9	7.6	19	43	47	40	119	262	221	36	9.2	8.3	9.2
10	7.2	18	44	46	45	107	350	237	33	8.7	8.3	8.7
11	6.9	22	42	44	38	104	336	187	27	8.7	8.3	8.7
12	6.7	23	44	43	35	97	397	167	25	7.9	9.2	13
13	6.7	25	43	41	50	92	478	274	25	7.9	8.3	17
14	7.1	30	41	40	70	90	517	317	24	7.9	7.9	97
15	10	40	38	39	90	104	367	231	23	7.5	7.5	66
16	15	55	32	37	75	199	306	214	21	7.5	7.1	50
17	16	48	37	34	66	217	255	200	19	7.5	7.1	50
18	15	42	37	32	62	177	225	168	18	7.5	6.6	72
19	14	38	37	31	64	167	213	148	17	9.6	6.6	72
20	13	50	41	30	80	163	221	130	15	9.2	6.6	55
21	13	64	38	31	100	151	204	145	14	8.3	7.1	84
22	16	70	37	31	95	134	181	175	14	7.5	6.6	84
23	46	60	35	30	100	127	157	134	13	7.5	6.2	64
24	43	52	37	29	105	116	136	115	13	7.1	5.8	53
25	32	47	35	27	94	104	133	107	13	7.1	5.8	46
26	27	44	35	31	90	99	130	105	18	7.1	5.8	42
27	23	41	34	38	150	97	127	96	15	6.6	7.5	38
28	21	40	32	32	270	98	117	97	13	6.2	94	34
29	19	41	31	29	------	105	155	83	12	7.1	47	31
30	18	40	31	28	------	116	142	74	12	9.2	24	29
31	18	------	31	27	------	114	------	78	------	11	18	------
TOTAL	474.6	1,080	1,242	1,116	1,939	4,296	8,036	5,122	829	285.4	422.3	1,112.0
MEAN	15.3	36.0	40.1	36.0	69.3	139	268	165	27.6	9.21	13.6	37.1
MAX	46	70	66	55	270	230	517	317	69	20	94	97
MIN	6.7	16	31	27	25	90	117	74	12	6.2	5.8	8.7
CFSM	.30	.71	.79	.71	1.36	2.73	5.25	3.24	.54	.18	.27	.73
IN.	.35	.79	.91	.81	1.41	3.13	5.86	3.74	.60	.21	.31	.81

CAL YR 1970 TOTAL 26,028.1 MEAN 71.3 MAX 993 MIN 4.2 CFSM 1.40 IN 18.99
WTR YR 1971 TOTAL 25,954.3 MEAN 71.1 MAX 517 MIN 5.8 CFSM 1.39 IN 18.93

PEAK DISCHARGE (BASE, 750 CFS).--No peak above base.

NOTE.--No gage-height record Oct. 1-14, Oct. 31 to Dec. 5, Feb. 1 to Mar. 3.

01198030 Schenob Brook near Sheffield, Mass.

LOCATION.--Lat 42°06'33", long 73°22'09", Berkshire County, on left bank at upstream side of Berkshire School Road bridge, 0.8 mile west of Sheffield, and 2.1 miles upstream from Hubbard Brook.

DRAINAGE AREA.--22.7 sq mi.

PERIOD OF RECORD.--November 1970 to September 1971.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 151 cfs Apr. 15 (gage height, 5.46 ft); maximum gage height, 6.35 ft Mar. 1 (backwater from ice); minimum discharge, 0.73 cfs Aug. 21.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		13	38	24	23	125	62	52	22	6.0	9.9	5.4
2		13	37	25	21	120	66	46	19	8.0	8.1	3.8
3		12	36	26	19	100	104	33	16	8.9	6.0	3.1
4		13	38	26	15	92	136	59	17	8.9	9.6	2.4
5		20	40	30	20	86	125	101	15	8.9	9.6	2.4
6		23	39	43	20	84	109	109	13	7.5	5.9	8.9
7		18	36	45	21	82	95	92	11	6.0	5.5	5.0
8		15	34	36	23	86	123	52	10	4.5	3.0	4.3
9		14	29	32	25	82	107	64	9.8	3.5	2.1	4.1
10		14	32	29	28	72	99	82	8.2	2.8	1.9	3.1
11		16	34	28	30	67	97	75	7.4	2.4	2.0	2.5
12		17	32	27	29	65	93	69	6.6	2.2	2.8	3.3
13		19	34	26	27	63	96	71	6.0	2.1	1.7	8.5
14		22	36	25	45	62	125	129	7.0	2.0	1.7	52
15		30	33	25	65	66	146	116	8.0	2.0	1.7	117
16		45	29	24	74	80	108	85	11	2.1	1.6	115
17		40	31	23	66	110	84	81	9.8	2.3	1.6	79
18		35	33	22	60	100	71	76	7.0	3.0	1.3	62
19		38	35	21	55	90	59	66	5.2	4.5	1.3	62
20		41	37	20	52	80	59	59	4.7	5.5	.97	55
21		48	38	20	68	80	63	55	4.3	4.5	.81	60
22		53	36	20	76	77	65	54	4.2	3.5	.57	77
23		50	35	21	78	72	61	50	4.1	2.8	1.3	65
24		46	35	22	80	68	53	41	4.0	2.4	1.8	51
25		43	34	22	78	65	50	39	6.0	2.1	1.5	43
26		40	32	24	70	63	43	35	8.0	2.0	1.7	39
27		38	30	28	75	61	41	36	9.1	1.9	2.2	37
28		37	28	31	100	59	34	34	8.2	1.8	38	33
29		38	26	27	------	62	39	29	7.2	2.0	106	17
30		39	25	24	------	69	51	20	6.4	2.5	48	13
31		------	24	24	------	68	------	20	------	4.0	11	------
TOTAL		890	1,036	820	1,347	2,456	2,468	1,930	275.2	122.6	293.95	1,033.8
MEAN		29.7	33.4	26.5	48.1	79.2	82.3	62.3	9.17	3.95	9.48	34.5
MAX		53	40	45	100	125	146	129	22	8.9	106	117
MIN		12	24	20	19	59	34	20	4.0	1.8	.81	2.4
CFSM		1.31	1.47	1.17	2.12	3.49	3.63	2.74	.40	.17	.42	1.52
IN.		1.46	1.70	1.34	2.21	4.02	4.04	3.16	.45	.20	.48	1.69

PEAK DISCHARGE (BASE, 140 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-15	0115	5.46	151				
5-14	1600	5.29	143				

NOTE.--No gage-height record Nov. 1-18, Nov. 23 to Dec. 5, June 10-15, 18-26, June 28 to July 2, July 6-31.

01198070 Willard Brook near Sheffield, Mass.

LOCATION.--Lat 42°06'41", long 73°23'38", Berkshire County, on right bank 125 ft downstream from Berkshire School Road bridge, 300 ft downstream from Fawn Lake, and 2.0 miles west of Sheffield.

DRAINAGE AREA.--3.21 sq mi.

PERIOD OF RECORD.--November 1970 to September 1971.

GAGE.--Water-stage recorder. Altitude of gage is 690 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 39 cfs Feb. 28 (gage height, 3.36 ft); minimum, 0.19 cfs Sept. 7; minimum daily, 0.22 cfs Aug. 23-26.

REMARKS.--Records good. Occasional regulation by pond above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		3.2	7.4	3.9	2.9	18	9.7	8.9	4.6	1.2	1.9	4.7
2		3.2	6.7	3.0	2.7	16	11	7.6	4.0	1.7	2.0	4.0
3		3.0	6.3	3.1	2.5	14	19	9.3	4.7	1.3	2.7	3.4
4		3.0	7.3	3.3	2.4	14	19	16	3.5	.94	4.5	3.3
5		5.0	7.8	4.2	2.4	12	16	18	2.4	.98	2.6	2.3
6		5.6	6.7	4.9	2.6	12	14	12	2.5	.97	1.6	.31
7		4.5	6.4	4.9	3.1	12	17	10	1.9	1.1	1.2	.23
8		3.8	5.1	4.9	2.9	13	18	10	2.6	1.0	1.1	.80
9		3.5	4.2	4.9	3.9	11	15	14	2.9	.96	1.1	1.3
10		3.3	5.3	4.7	4.1	9.8	15	14	2.5	.86	1.1	.50
11		4.0	6.4	4.6	3.5	9.4	17	11	2.2	.86	4.2	.56
12		4.3	6.4	4.4	3.2	8.9	16	9.8	2.2	.86	3.7	.80
13		4.6	6.4	4.2	4.1	8.7	18	14	2.3	.86	1.5	1.1
14		5.4	6.4	3.8	9.2	8.5	24	19	2.3	.92	1.1	14
15		7.2	6.0	3.8	8.5	9.7	20	13	2.3	1.0	1.1	18
16		10	5.8	3.7	6.9	15	16	12	2.3	1.5	1.2	12
17		9.0	5.7	3.3	5.8	15	14	12	2.4	1.2	.99	8.0
18		7.9	5.5	3.1	5.3	13	13	10	1.9	1.2	.92	9.0
19		7.8	5.5	2.8	5.4	12	12	8.9	1.8	1.2	1.0	13
20		8.4	5.5	2.7	6.5	12	13	8.1	1.7	1.5	.99	10
21		12	5.5	2.7	8.7	12	14	7.6	1.6	1.0	1.2	13
22		10	5.5	2.7	8.2	11	13	8.1	1.4	1.0	.63	15
23		12	5.5	2.8	8.4	11	11	7.1	1.2	1.0	.22	12
24		11	5.5	2.9	8.9	9.9	9.8	6.1	1.1	1.0	.22	9.0
25		8.9	5.3	2.9	8.0	9.8	9.6	6.0	1.3	1.0	.22	7.8
26		7.9	5.2	3.2	7.5	8.3	9.4	6.2	2.6	1.1	.22	7.0
27		7.7	4.9	4.0	13	8.0	8.9	5.6	1.7	1.1	.30	6.5
28		7.7	4.8	3.6	21	8.1	7.8	5.5	1.3	1.1	20	5.8
29		7.6	4.5	3.1	------	9.0	10	4.8	1.1	1.0	18	5.4
30		7.5	4.3	3.0	------	10	11	4.7	1.1	1.0	8.2	5.0
31		------	4.2	3.0	------	10	------	5.3	------	1.2	6.0	------
TOTAL		199.0	178.0	112.1	171.6	350.1	421.2	304.6	67.4	33.61	91.71	193.80
MEAN		6.63	5.74	3.62	6.13	11.3	14.0	9.83	2.25	1.08	2.96	6.46
MAX		12	7.8	4.9	21	18	24	19	4.7	1.7	20	18
MIN		3.0	4.2	2.7	2.4	8.0	7.8	4.7	1.1	.86	.22	.23
CFSM		2.07	1.79	1.13	1.91	3.52	4.36	3.06	.70	.34	.92	2.01
IN.		2.31	2.06	1.30	1.99	4.06	4.88	3.53	.78	.39	1.06	2.25

NOTE.-- No gage-height record Sept. 15-30.

01198075 Hubbard Brook at Sheffield, Mass.

LOCATION.--Lat 42°07'13", long 73°21'46", Berkshire County, on right bank 10 ft upstream from Cook Road bridge, 200 ft downstream from Mill Pond, and 0.9 mile northwest of Sheffield.

DRAINAGE AREA.--25.8 sq mi.

PERIOD OF RECORD.--November 1970 to September 1971.

GAGE.--Water-stage recorder. Altitude of gage is 655 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 142 cfs May 16 (gage height, 5.57 ft); minimum, 3.9 cfs May 23; minimum daily, 4.0 cfs May 23.

REMARKS.--Records good. Occasional regulation by pond above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		15	33	16	15	119	68	66	45	7.0	14	18
2		15	30	17	13	112	70	59	29	12	16	13
3		14	28	16	13	101	95	59	27	11	16	12
4		14	32	16	13	89	119	76	33	7.9	49	11
5		22	35	21	13	78	117	97	29	6.9	42	10
6		25	31	32	14	83	110	88	25	6.7	17	9.3
7		20	23	31	14	78	108	70	19	6.1	10	8.3
8		17	21	24	16	80	113	66	15	5.6	7.9	7.7
9		16	18	21	17	75	105	77	14	5.6	7.1	7.8
10		16	19	19	18	68	104	93	14	5.6	6.6	7.8
11		18	21	19	20	66	106	83	12	5.6	6.5	7.3
12		20	24	19	19	64	103	71	11	5.4	10	9.3
13		21	25	17	20	62	106	73	13	5.3	9.4	14
14		24	23	17	36	61	119	112	14	5.1	7.1	54
15		33	20	17	51	65	127	102	12	5.1	6.3	77
16		45	18	18	59	92	118	100	9.6	5.1	6.5	56
17		41	22	17	57	110	106	118	11	5.1	6.3	40
18		35	21	15	48	96	92	102	10	5.8	5.7	45
19		30	21	15	46	86	81	78	8.6	7.2	5.3	68
20		35	25	14	52	80	76	68	8.0	11	5.2	55
21		55	27	14	60	82	75	64	7.6	9.9	5.5	60
22		45	24	14	68	77	76	52	7.1	7.4	5.6	73
23		53	23	15	68	74	71	4.0	7.7	6.3	5.6	61
24		49	24	15	65	71	65	4.4	8.2	5.7	5.3	51
25		40	23	15	67	66	63	5.3	9.3	5.7	5.3	43
26		35	22	16	64	63	63	5.8	19	5.7	5.3	35
27		33	20	19	71	62	63	11	17	5.7	5.3	36
28		32	19	22	108	62	61	30	10	5.6	37	36
29		33	18	19	------	64	67	37	7.8	5.4	116	32
30		34	17	17	------	69	72	43	7.1	5.4	61	28
31		------	16	17	------	70	------	47	------	6.5	30	------
TOTAL		885	723	564	1,129	2,425	2,723	1,961.5	460.0	204.4	535.8	985.5
MEAN		29.5	23.3	18.2	40.3	78.2	90.8	63.3	15.3	6.59	17.3	32.9
MAX		55	35	32	108	119	127	118	45	12	116	77
MIN		14	16	14	13	61	61	4.0	7.1	5.1	5.2	7.3
CFSM		1.14	.90	.71	1.56	3.03	3.52	2.45	.59	.26	.67	1.28
IN.		1.28	1.04	.81	1.63	3.50	3.93	2.83	.66	.29	.77	1.42

01329000 Batten Kill at Arlington, Vt.

LOCATION.--Lat 43°04'38", long 73°09'26", Bennington County, on left bank 5 ft upstream from bridge on Highway 313 at Arlington and 0.9 mile downstream from Warm Brook.

DRAINAGE AREA.--152 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 597.68 ft above mean sea level, unadjusted. Prior to Nov. 18, 1941, nonrecording gage at downstream side of bridge at same datum.

AVERAGE DISCHARGE.--43 years, 326 cfs (29.13 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,210 cfs May 13 (gage height, 6.83 ft); minimum, 66 cfs Aug. 27.
Period of record: Maximum discharge, 11,100 cfs Mar. 18, 1936 (gage height, 11.3 ft, from floodmarks, present site), from rating curve extended above 5,200 cfs on basis of slope-area measurement at gage height 10.8 ft and computation of peak flow over dam; minimum, 37 cfs Sept. 25 1964.

REMARKS.--Records good except those for winter period, which are fair. Prior to 1949, diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 851: 1936 (maximum gage height). WSP 1302: 1929-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	198	317	156	115	269	239	805	288	172	178	159
2	290	190	276	160	115	227	334	907	265	251	150	129
3	480	182	252	158	110	210	575	1,210	303	152	174	115
4	580	178	548	154	110	190	575	1,570	295	122	273	109
5	400	176	511	312	115	190	508	1,430	266	110	169	103
6	320	169	374	400	120	190	487	1,390	234	102	125	104
7	280	162	300	280	130	190	486	1,410	216	98	108	100
8	250	156	239	224	135	186	442	1,580	201	92	96	94
9	230	151	268	225	139	175	426	1,960	235	89	88	71
10	215	150	276	220	130	170	556	1,830	196	85	82	86
11	205	200	245	207	125	169	569	1,760	178	83	99	82
12	200	189	232	190	127	167	580	1,740	170	82	122	132
13	210	171	227	155	148	164	929	1,980	163	80	93	143
14	205	163	223	182	260	166	1,200	1,740	155	101	83	144
15	450	225	202	181	245	281	1,340	1,280	148	114	79	224
16	904	289	190	160	186	904	919	1,060	143	96	79	183
17	483	234	194	150	155	748	674	925	136	91	75	156
18	336	209	211	145	159	530	624	870	129	105	72	133
19	291	216	202	135	157	425	639	826	124	111	69	122
20	258	330	225	130	159	381	943	743	120	201	68	109
21	234	580	202	125	165	341	1,110	775	118	131	70	210
22	268	447	196	130	154	304	1,090	991	127	103	69	183
23	548	565	195	130	152	282	924	686	116	92	73	133
24	499	456	189	125	151	265	739	533	109	86	75	115
25	357	322	185	120	147	248	759	477	141	86	68	103
26	300	272	179	120	146	238	681	549	348	83	69	98
27	273	259	175	140	245	233	642	487	185	100	71	95
28	251	272	170	135	346	233	633	440	137	94	744	95
29	233	337	165	130	-------	234	755	391	120	83	1,060	98
30	218	338	165	125	-------	236	797	347	112	126	414	91
31	206	-------	160	120	-------	232	-------	323	-------	148	219	-------
TOTAL	10,314	7,777	7,493	5,324	4,446	8,778	20,875	33,015	5,478	3,469	5,213	3,732
MEAN	333	259	242	172	159	283	696	1,065	183	112	168	124
MAX	904	580	548	400	346	904	1,200	1,980	348	251	1,060	224
MIN	200	150	160	120	110	164	239	323	109	80	69	82
CFSM	2.19	1.70	1.59	1.13	1.05	1.86	4.58	7.01	1.20	.74	1.11	.82
IN.	2.52	1.90	1.83	1.30	1.09	2.15	5.11	8.08	1.34	.85	1.28	.91

CAL YR 1970 TOTAL 116,781 MEAN 320 MAX 2,280 MIN 70 CFSM 2.11 IN 28.58
WTR YR 1971 TOTAL 115,914 MEAN 318 MAX 1,980 MIN 68 CFSM 2.09 IN 28.37

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-13	1700	6.83	2,210				

01331400 Dry Brook near Adams, Mass.

LOCATION.--Lat 42°35'20", long 73°06'48", Berkshire County, on right bank 20 ft upstream from bridge on State Highway 116, just south of junction of Wells Road and State Highway 116, and 2.5 miles south of Adams.

DRAINAGE AREA.--7.53 sq mi.

PERIOD OF RECORD.--November 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,150 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1963-71), 13.3 cfs (23.99 inches per year).

EXTREMES.--Current year: Maximum discharge, 919 cfs Aug. 28 (gage height, 4.81 ft), from rating curve extended above 250 cfs; minimum, 0.23 cfs Nov. 9, 10 (caused by unknown regulation).

Period of record: Maximum discharge, 984 cfs July 19, 1966 (gage height, 5.03 ft), from rating curve extended above 250 cfs; no flow Sept. 9-11, 15-20, 1964, part of June 28, 1965, Aug. 10, 14-20, 1970.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since May 1963 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	2.5	4.1	2.5	1.4	14	12	49	6.2	23	3.4	4.4
2	.93	2.5	3.2	2.6	1.3	11	20	49	5.0	29	2.7	3.2
3	3.7	2.4	2.7	2.6	1.2	9.8	58	89	5.6	8.0	4.7	2.7
4	5.3	2.4	16	2.5	1.2	8.5	48	96	5.0	3.9	6.5	2.5
5	2.7	2.9	9.8	6.5	1.2	8.5	38	52	4.1	2.5	3.9	2.0
6	1.9	3.3	7.5	13	1.2	8.5	32	46	3.8	2.0	2.4	1.9
7	1.5	1.8	6.0	9.0	1.2	8.4	28	35	3.4	1.8	1.9	1.9
8	1.5	.46	5.0	6.0	1.1	8.0	23	42	3.8	1.4	1.6	1.8
9	1.1	.39	7.5	5.0	1.2	7.6	27	72	6.8	1.4	1.2	2.0
10	1.5	.30	5.7	4.5	1.0	7.5	42	70	3.9	1.3	1.2	1.7
11	1.0	1.1	4.8	4.0	.93	7.6	48	46	3.4	1.1	14	1.4
12	1.5	1.1	4.3	3.4	.98	7.1	75	27	3.1	1.2	18	8.9
13	1.5	.95	4.0	2.9	2.5	6.8	122	94	2.7	1.1	5.6	7.5
14	1.5	.93	3.6	3.1	15	6.8	83	67	2.9	1.3	3.1	19
15	5.3	5.5	3.1	3.3	12	15	58	30	2.4	1.1	2.3	17
16	11	6.8	2.7	2.9	10	49	44	26	2.4	1.1	2.0	9.3
17	5.7	3.7	3.0	2.6	8.5	31	41	24	2.2	1.1	1.8	17
18	4.1	2.4	3.8	2.3	7.5	28	47	19	1.8	.97	1.7	8.9
19	3.3	3.0	3.6	2.1	7.1	20	85	15	1.7	2.4	1.4	6.2
20	2.6	4.5	5.0	2.0	6.8	16	111	12	1.6	3.1	1.4	4.7
21	2.4	7.6	4.0	1.9	7.1	13	87	15	1.7	2.0	1.4	22
22	6.2	4.4	3.0	2.0	6.8	13	61	19	2.2	1.6	2.3	12
23	15	11	3.5	1.8	6.8	12	56	13	1.7	1.4	2.2	9.0
24	8.9	5.6	3.2	1.7	6.5	10	61	10	1.4	1.1	1.8	7.2
25	5.8	3.9	3.2	1.8	6.2	9.0	52	9.3	3.1	1.1	1.6	6.0
26	4.7	2.9	3.1	1.9	6.2	8.5	39	9.7	12	1.1	1.4	5.5
27	4.3	2.5	3.0	1.9	32	8.3	46	9.3	4.1	1.1	2.4	5.3
28	3.7	2.9	2.9	1.9	22	9.0	51	11	2.3	.81	208	4.8
29	3.5	3.5	2.7	1.8	------	9.7	62	8.4	1.8	2.3	54	4.8
30	3.1	5.0	2.7	1.6	------	10	52	6.8	2.0	5.9	15	4.3
31	2.7	------	2.5	1.5	------	9.3	------	7.5	------	4.4	6.8	------
TOTAL	119.23	98.23	139.2	102.6	176.91	390.9	1,609	1,079.0	104.1	111.58	377.7	204.9
MEAN	3.85	3.27	4.49	3.31	6.32	12.6	53.6	34.8	3.47	3.60	12.2	6.83
MAX	15	11	16	13	32	49	122	96	12	29	208	22
MIN	.93	.30	2.5	1.5	.93	6.8	12	6.8	1.4	.81	1.2	1.4
CFSM	.51	.43	.60	.44	.84	1.67	7.12	4.62	.46	.48	1.62	.91
IN.	.59	.49	.69	.51	.87	1.93	7.95	5.33	.51	.55	1.87	1.01

CAL YR 1970 TOTAL 4,565.29 MEAN 12.5 MAX 122 MIN 0 CFSM 1.66 IN 22.55
WTR YR 1971 TOTAL 4,513.35 MEAN 12.4 MAX 208 MIN .30 CFSM 1.65 IN 22.30

PEAK DISCHARGE (BASE, 300 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
7-1	1630	3.85	329				
8-28	1045	4.81	919				

01331500 Hoosic River at Adams, Mass.

LOCATION.--Lat 42°36'37", long 73°07'32", Berkshire County, on right bank at Adams, just downstream from Dry Brook and 0.5 mile upstream from Pecks Brook.

DRAINAGE AREA.--46.3 sq mi.

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 836.01 ft above mean sea level; prior to Oct. 1, 1964, datum was 1.00 ft higher.

AVERAGE DISCHARGE.--40 years, 88.4 cfs (25.93 inches per year), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 504 cfs Aug. 28 (gage height, 3.41 ft); minimum, 17 cfs July 19; minimum daily, 18 cfs Feb. 3, July 16, Aug. 26.

Period of record: Maximum discharge, 5,080 cfs Sept. 21, 1938 (gage height, 9.25 ft, present datum), from rating curve extended above 1,100 cfs on basis of computation of peak flow over dam; minimum daily, 8.0 cfs Aug. 31, Sept. 1, 1968.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Diversion above station for municipal supply of Adams. See table below for figures of diversion. Some diurnal fluctuation by mill above station prior to 1961. Flow regulated by Cheshire Reservoir 5.1 miles upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	47	37	29	21	71	62	217	56	58	40	29
2	27	47	33	30	20	66	73	217	62	140	33	26
3	33	47	31	31	18	62	168	287	52	55	36	23
4	42	36	71	34	19	56	187	354	50	42	49	23
5	30	31	55	60	20	53	153	274	43	38	36	21
6	28	31	43	62	20	58	145	229	41	34	31	19
7	27	33	36	48	19	75	138	209	40	31	28	20
8	26	35	33	43	20	75	126	192	43	28	26	20
9	25	35	35	41	21	71	119	200	49	26	24	22
10	21	39	35	39	20	69	163	229	40	24	22	20
11	21	36	35	37	19	69	187	184	37	23	32	19
12	20	34	35	35	20	67	232	160	36	22	73	60
13	20	34	36	32	27	64	315	238	36	21	36	49
14	20	33	35	32	60	56	354	315	35	22	31	69
15	33	49	35	34	70	64	247	195	33	19	28	66
16	36	44	33	32	45	122	226	158	32	18	25	52
17	25	37	32	31	36	119	214	148	30	19	24	66
18	23	35	34	30	32	83	223	124	29	19	23	50
19	21	41	35	29	33	71	262	115	27	26	21	42
20	19	50	38	28	35	69	361	106	25	32	21	37
21	20	60	38	27	36	64	357	108	27	25	21	64
22	32	46	35	27	34	58	308	126	31	24	23	49
23	37	58	35	26	32	62	259	106	25	22	22	41
24	28	43	36	25	31	73	244	93	23	21	20	37
25	24	38	34	26	31	69	229	87	26	21	19	33
26	23	37	35	27	36	66	195	83	60	21	18	33
27	22	34	34	27	75	66	189	77	32	20	22	31
28	22	37	31	26	87	64	198	77	28	19	244	31
29	22	37	29	25	------	64	235	69	27	23	163	30
30	22	41	28	24	------	62	226	64	26	47	58	27
31	35	------	28	23	------	62	------	66	------	46	38	------
TOTAL	812	1,205	1,120	1,020	937	2,150	6,395	5,107	1,101	986	1,287	1,109
MEAN	26.2	40.2	36.1	32.9	33.5	69.4	213	165	36.7	31.8	41.5	37.0
MAX	42	60	71	62	87	122	361	354	62	140	244	69
MIN	19	31	28	23	18	53	62	64	23	18	18	19
(†)	3.06	2.99	3.11	2.88	3.01	3.53	3.03	2.98	3.13	3.63	3.67	3.69

CAL YR 1970 TOTAL 25,460 MEAN 69.8 MAX 467 MIN 14 MEAN‡ 72.9 CFSM‡ 1.57 IN‡ 21.37

WTR YR 1971 TOTAL 23,229 MEAN 63.6 MAX 361 MIN 18 MEAN‡ 66.9 CFSM‡ 1.44 IN‡ 19.61

PEAK DISCHARGE (BASE, 900 CFS).--No peak above base.

† Diversion, in cubic feet per second, for municipal supply of Adams; records furnished by Adams Fire and Water District.

‡ Adjusted for diversion.

NOTE.--No gage-height record Jun. 10 to Feb. 23.

01332000 North Branch Hoosic River at North Adams, Mass.

LOCATION.--Lat 42°42'08", long 73°05'37", Berkshire County, on left bank at North Adams, 0.4 mile downstream from Hudson Brook, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--39.0 sq mi.

PERIOD OF RECORD.--June 1931 to current year.

GAGE.--Water-stage recorder. Concrete control at present site. Datum of gage is 820.46 ft above mean sea level. Prior to Sept. 23, 1938, at site 100 ft upstream at same datum. July 9, 1959, to July 29, 1960, nonrecording gage at site 500 ft upstream at datum about 4.6 ft lower.

AVERAGE DISCHARGE.--40 years, 93.0 cfs (32.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,470 cfs Aug. 28 (gage height, 8.38 ft); minimum, 5.5 cfs June 17; minimum daily, 8.3 cfs June 20, Aug. 26.

Period of record: Maximum discharge, 8,950 cfs Sept. 21, 1938 (gage height, 12.05 ft, from floodmarks), by computation of peak flow over dam; minimum, 1.7 cfs July 30, 1965; minimum daily, 3.1 cfs July 30, 1965.

Flood in November 1927 reached a discharge of 9,980 cfs, by computation of flow over dam.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow by mill above station prior to 1963; more frequent fluctuation prior to 1948.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1933(M). WSP 801: 1928(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	39	96	34	22	78	55	320	46	85	44	36
2	46	36	81	36	20	67	74	350	40	123	34	27
3	99	34	70	34	19	60	181	370	46	50	49	22
4	144	32	252	35	19	52	181	670	41	30	85	19
5	83	31	173	70	20	53	156	450	34	22	47	17
6	63	29	118	78	21	53	140	420	29	18	29	17
7	52	27	88	50	20	52	129	370	27	19	20	18
8	44	25	67	49	21	49	108	390	27	15	16	17
9	39	23	79	44	23	46	113	540	47	13	14	17
10	34	23	74	50	21	46	160	450	29	12	12	15
11	32	39	61	46	20	46	181	350	23	11	67	13
12	30	34	60	40	21	43	305	290	19	11	69	95
13	31	30	58	33	32	41	502	500	17	9.7	31	63
14	30	28	54	36	91	43	530	450	17	12	20	76
15	99	67	46	39	89	58	320	266	15	12	15	91
16	128	93	39	33	58	135	250	200	15	11	14	72
17	81	61	41	33	47	115	196	167	12	11	13	69
18	65	49	52	31	43	87	217	135	9.7	12	11	56
19	60	58	47	29	43	74	397	115	8.7	38	10	47
20	51	91	60	28	44	76	680	100	8.3	56	9.7	38
21	46	180	51	27	43	67	610	126	26	23	10	108
22	72	115	41	28	40	60	410	160	41	15	10	78
23	141	162	46	27	40	58	330	113	17	13	9.7	56
24	102	115	43	27	40	55	280	93	13	12	11	46
25	77	86	43	27	38	52	310	89	50	11	8.7	36
26	67	72	42	30	38	50	250	80	156	11	8.3	32
27	61	67	40	29	85	50	230	76	47	10	9.7	29
28	54	74	39	30	105	53	260	70	27	11	604	28
29	49	93	36	28	------	56	350	61	19	12	814	29
30	44	112	36	26	------	55	320	55	16	58	82	26
31	41	------	33	24	------	53	------	55	------	49	52	------
TOTAL	2,019	1,925	2,066	1,131	1,123	1,883	8,225	7,881	922.7	795.7	2,229.1	1,293
MEAN	65.1	64.2	66.6	36.5	40.1	60.7	274	254	30.8	25.7	71.9	43.1
MAX	144	180	252	78	105	135	680	670	156	123	814	108
MIN	30	23	33	24	19	41	55	55	8.3	9.7	8.3	13
CFSM	1.67	1.65	1.71	.94	1.03	1.56	7.03	6.51	.79	.66	1.84	1.11
IN.	1.93	1.84	1.97	1.08	1.07	1.80	7.85	7.52	.88	.76	2.13	1.23

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CAL YR 1970  TOTAL 33,525.6   MEAN 91.9   MAX 838   MIN 5.6   CFSM 2.36   IN 31.98
WTR YR 1971  TOTAL 31,493.5   MEAN 86.3   MAX 814   MIN 8.3   CFSM 2.21   IN 30.04
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PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8-28	1200	8.38	1,470				

01332500 Hoosic River near Williamstown, Mass.

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, on left bank 1.0 mile upstream from Green River and 1.2 miles east of Williamstown.

DRAINAGE AREA.--132 sq mi.

PERIOD OF RECORD.--July 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 262 cfs (26.95 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,530 cfs Aug. 28 (gage height, 5.82 ft), from rating curve extended above 1,600 cfs on basis of slope-area measurement of peak flow; minimum, 52 cfs July 12, 15-19, 27, 28, Aug. 25-27; minimum daily, 52 cfs July 16-18, Aug. 26.

Period of record: Maximum discharge, 13,000 cfs Dec. 31, 1948 (gage height, 14.85 ft), from rating curve extended above 4,300 cfs on basis of contracted-opening measurement of peak flow; minimum, 5.8 cfs Aug. 30, 31, Oct. 26, 1940: minimum daily, 25 cfs (corrected) Sept. 2, 1968.

REMARKS.--Records good except those for winter period, which are fair. Slight diurnal fluctuation at low flow prior to 1966 caused by mills above station. Some regulation by Cheshire Reservoir 17 miles upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	117	192	111	90	273	215	785	158	280	137	144
2	111	117	171	110	84	234	288	838	147	429	110	127
3	160	117	153	114	78	201	670	1,160	147	168	123	116
4	243	117	450	114	78	175	635	1,610	133	116	197	116
5	153	107	322	220	80	193	535	1,070	127	103	127	110
6	130	104	247	270	84	182	488	974	116	94	103	107
7	120	95	190	190	78	189	461	871	110	84	91	103
8	114	98	155	170	82	186	394	898	130	72	81	107
9	104	98	178	160	86	179	381	1,160	147	69	75	110
10	95	101	174	157	82	179	535	1,060	120	64	69	91
11	92	120	157	160	78	172	580	821	110	55	151	84
12	92	114	153	157	82	168	816	680	103	55	242	246
13	95	111	147	130	100	161	1,190	1,150	97	55	116	186
14	95	107	143	135	220	165	1,430	1,120	100	69	91	223
15	174	160	133	150	300	227	871	675	103	55	78	253
16	224	213	120	125	200	479	725	540	97	52	75	197
17	157	164	127	120	133	425	605	488	94	52	72	223
18	133	140	140	115	133	328	645	403	84	52	69	179
19	127	143	136	110	136	284	865	352	84	103	67	151
20	114	192	157	105	133	273	1,350	308	87	144	64	133
21	111	318	147	105	133	246	1,380	344	137	81	61	269
22	143	224	115	105	130	219	1,080	434	147	72	64	201
23	239	298	140	100	130	212	800	328	87	67	64	151
24	188	235	133	100	130	215	745	288	78	64	58	133
25	147	181	127	105	127	204	800	269	130	61	55	120
26	133	160	127	110	127	197	635	253	420	61	52	116
27	127	153	123	110	273	197	605	238	130	55	61	110
28	117	160	120	105	324	197	655	230	100	55	1,060	107
29	114	185	115	105	------	208	849	204	94	72	650	107
30	107	221	115	100	------	208	790	182	91	179	280	103
31	107	------	110	95	------	204	------	175	------	165	182	------
TOTAL	4,186	4,670	5,017	4,063	3,711	6,980	22,018	19,908	3,708	3,103	4,725	4,423
MEAN	135	156	162	131	133	225	734	642	124	100	152	147
MAX	243	318	450	270	324	479	1,430	1,610	420	429	1,060	269
MIN	92	95	110	95	78	161	215	175	78	52	52	84
CFSM	1.02	1.18	1.23	.99	1.01	1.70	5.56	4.86	.94	.76	1.15	1.11
IN.	1.18	1.32	1.41	1.15	1.05	1.97	6.21	5.61	1.04	.87	1.33	1.25

CAL YR 1970 TOTAL 94,767 MEAN 260 MAX 1,940 MIN 60 CFSM 1.97 IN 26.71
WTR YR 1971 TOTAL 86,512 MEAN 237 MAX 1,610 MIN 52 CFSM 1.80 IN 24.38

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8-28	1300	5.82	2,530				

01333000 Green River at Williamstown, Mass.

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, on left bank 0.1 mile upstream from bridge on State Highway 2 at Williamstown and 0.8 mile upstream from mouth.

DRAINAGE AREA.--42.6 sq mi.

PERIOD OF RECORD.--September 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (from topographic map).

AVERAGE DISCHARGE.--22 years, 75.9 cfs (24.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,100 cfs Aug. 28 (gage height, 3.77 ft, from peak-stage indicator); minimum, 8.1 cfs Aug. 25, 26, 27.
Period of record: Maximum discharge, 2,730 cfs June 15, 1969 (gage height, 4.94 ft), from rating curve extended above 750 cfs on basis of slope-area measurement at gage height 4.94 ft; maximum gage height, 5.94 ft Sept. 12, 1960; minimum discharge, 3.1 cfs Sept. 20, 22, 24, 25, 1964.
Flood of Dec. 31, 1948, reached a stage of about 7.5 ft, from floodmarks.

REMARKS.--Records good except those for winter period, which are fair. Slight diurnal fluctuation at times caused by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	22	45	28	24	135	87	207	53	151	24	34
2	13	21	43	29	23	121	171	206	48	96	23	30
3	22	20	40	29	22	108	343	316	49	54	26	27
4	31	20	104	29	21	97	282	420	45	41	30	25
5	23	19	85	76	22	88	250	319	40	34	23	23
6	20	19	76	56	23	87	228	279	37	31	19	22
7	19	18	63	45	23	84	219	247	35	28	16	21
8	17	18	52	50	23	74	183	261	58	25	15	20
9	16	16	60	46	26	67	184	294	52	23	13	21
10	15	16	59	52	24	64	231	287	38	20	12	19
11	14	20	50	45	23	60	232	245	34	19	35	17
12	14	18	48	41	24	58	279	215	31	18	34	65
13	14	18	46	37	39	55	403	384	31	17	20	37
14	13	17	44	36	117	58	521	334	29	21	16	64
15	27	36	41	39	64	172	347	250	27	17	15	67
16	34	45	35	36	55	319	277	217	25	16	14	56
17	26	34	37	35	52	199	229	193	24	18	13	56
18	23	30	41	32	49	155	207	167	22	16	11	48
19	22	31	41	31	50	135	225	144	20	33	10	43
20	20	38	52	29	54	128	296	127	19	29	10	38
21	20	79	41	29	61	112	333	144	38	19	11	98
22	26	60	37	29	55	101	288	143	36	16	11	62
23	46	94	41	28	53	92	232	117	24	14	11	52
24	40	70	38	26	49	84	207	103	22	13	9.3	45
25	35	55	37	26	47	76	215	96	61	13	8.5	40
26	32	49	35	30	48	71	197	87	81	13	8.8	37
27	29	47	34	31	150	70	177	82	37	11	12	34
28	27	46	28	29	153	71	178	76	30	11	308	32
29	26	46	28	29	------	75	225	67	26	14	102	31
30	24	48	27	28	------	75	217	62	23	34	59	29
31	23	------	27	26	------	76	------	60	------	29	42	------
TOTAL	726	1,070	1,435	1,112	1,374	3,167	7,463	6,149	1,095	894	961.6	1,192
MEAN	23.4	35.7	46.3	35.9	49.1	102	249	198	36.5	28.8	31.0	39.7
MAX	46	94	104	76	153	319	521	420	81	151	308	98
MIN	13	16	27	26	21	55	87	60	19	11	8.5	17
CFSM	.55	.84	1.09	.84	1.15	2.39	5.85	4.65	.86	.68	.73	.93
IN.	.63	.93	1.25	.97	1.20	2.77	6.52	5.37	.96	.78	.84	1.04

CAL YR 1970 TOTAL 26,745.6 MEAN 73.3 MAX 777 MIN 4.7 CFSM 1.72 IN 23.36
WTR YR 1971 TOTAL 26,638.6 MEAN 73.0 MAX 521 MIN 8.5 CFSM 1.71 IN 23.26

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-13	1515	3.29	663				
7-1	1745	3.31	678				
8-28	-	3.77	1,100				

01334000 Walloomsac River near North Bennington, Vt.

LOCATION.--Lat 42°54'47", long 73°15'25", Bennington County, on left bank 0.6 mile downstream from Paran Creek and 1.4 miles south of North Bennington.

DRAINAGE AREA.--111 sq mi.

PERIOD OF RECORD.--June 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 525 ft (from topographic map).

AVERAGE DISCHARGE.--40 years, 212 cfs (25.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,740 cfs July 1 (gage height, 7.76 ft); minimum, 45 cfs Aug. 25, 26, 27; minimum daily, 46 cfs Aug. 25, 26.

Period of record: Maximum discharge, 8,450 cfs Sept. 21, 1938 (gage height, 12.04 ft), from rating curve extended above 2,800 cfs on basis of contracted-opening measurements at gage heights 10.13, 10.49, 11.50, and 12.04 ft and slope-area measurement and computation of flow over dam at gage height 12.04 ft; minimum, 4 cfs Sept. 27, 1932; minimum daily, 21 cfs Sept. 22, 23, 1964, July 12, 1965.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Occasional diurnal fluctuation at low flow caused by mills above station; diurnal fluctuation greater prior to 1960. Diversion above station for municipal supply of Bennington and North Bennington since 1961. See table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 781: 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	121	201	105	78	261	173	595	166	949	180	110
2	164	116	178	110	76	210	264	666	151	761	126	94
3	295	111	162	110	74	181	484	916	183	262	127	86
4	363	108	374	104	75	157	415	1,280	171	160	195	82
5	236	106	317	230	78	155	348	928	146	126	125	76
6	188	101	236	240	82	150	322	949	132	108	97	73
7	164	97	194	190	98	147	325	951	123	100	83	68
8	147	94	155	150	88	141	297	1,070	125	88	74	67
9	134	90	175	145	96	130	281	1,330	172	81	67	67
10	125	89	178	140	92	127	396	1,140	127	75	63	62
11	119	100	160	135	90	124	373	1,090	110	71	132	58
12	113	95	155	125	92	121	459	989	102	68	168	157
13	118	93	151	100	110	119	664	1,580	100	64	97	141
14	117	89	149	120	200	131	859	1,180	95	103	76	125
15	261	147	132	120	180	320	574	738	91	86	66	196
16	570	206	115	105	140	588	475	605	86	75	64	148
17	289	154	125	100	115	393	405	516	79	73	58	129
18	219	125	140	95	120	296	387	456	77	89	55	114
19	195	127	135	90	115	249	439	405	74	109	52	100
20	170	184	159	86	115	233	717	352	71	157	49	86
21	156	298	140	84	125	210	802	411	78	100	53	266
22	198	222	130	86	120	192	644	520	98	78	50	186
23	310	269	125	86	120	184	504	367	79	68	48	129
24	240	226	124	82	115	171	439	301	70	63	51	109
25	192	177	122	78	109	157	516	275	95	62	46	93
26	170	156	118	78	109	152	463	275	275	60	46	89
27	157	151	115	90	281	153	436	260	128	75	59	84
28	147	170	110	87	333	159	433	240	90	71	639	82
29	138	229	105	85	------	165	580	212	77	66	595	80
30	131	221	100	83	------	166	578	193	70	168	226	76
31	126	------	100	80	------	163	------	186	------	160	143	------
TOTAL	6,145	4,472	4,880	3,519	3,426	6,105	14,052	20,976	3,441	4,576	3,901	3,233
MEAN	198	149	157	114	122	197	468	677	115	148	126	108
MAX	570	298	374	240	333	588	859	1,580	275	949	639	266
MIN	113	89	100	78	74	119	173	186	70	60	46	58
CFSM	1.78	1.34	1.41	1.03	1.10	1.77	4.22	6.10	1.04	1.33	1.14	.97
IN.	2.06	1.50	1.64	1.18	1.15	2.05	4.71	7.03	1.15	1.53	1.31	1.08
(†)	3.22	3.02	3.30	3.23	3.52	4.68	4.65	5.18	3.41	3.49	2.77	3.00

CAL YR 1970 TOTAL 75,363 MEAN 206 MAX 1,390 MIN 36 CFSM 1.86 IN 25.26 (†) 3.66
WTR YR 1971 TOTAL 78,726 MEAN 216 MAX 1,580 MIN 46 CFSM 1.95 IN 26.38 (†) 3.62

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-13	1815	6.12	2,400				
7-1	1930	7.76	3,740				

† Diversion, in cubic feet per second, for municipal supply of Bennington and North Bennington; records furnished by town of Bennington.

NOTE.--No gage-height record Jan. 5 to Feb. 23.

ST. LAWRENCE RIVER BASIN

04280000 Poultney River below Fair Haven, Vt.

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, on right bank 0.3 mile downstream from Carver Falls, 1.9 miles upstream from Hubbardton River, and 3.2 miles northwest of Fair Haven.

DRAINAGE AREA.--187 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 105 ft (from topographic map).

AVERAGE DISCHARGE.--43 years, 229 cfs (16.63 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,420 cfs Aug. 29 (gage height, 11.04 ft); minimum daily, 5.2 cfs July 13.
Period of record: Maximum discharge, 14,800 cfs July 20, 1945 (gage height, 24.36 ft, from high-water mark in gage well), from rating curve extended above 2,400 cfs on basis of computations of peak flow over dam at gage heights 16.10, 21.40, and 24.36 ft; minimum daily, 2.1 cfs Aug. 8, 1965.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplant above station and by Lake Bomoseen.

REVISIONS (WATER YEARS).--WSP 1114: 1929(M), 1932-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	63	160	145	110	300	383	464	199	35	179	540
2	187	65	145	120	105	350	508	418	171	72	147	388
3	78	65	140	120	95	330	1,030	557	137	19	208	238
4	107	65	225	115	75	320	1,580	789	149	28	467	172
5	113	52	263	115	70	320	1.290	770	119	30	267	154
6	56	50	192	140	80	310	1,190	593	61	56	200	105
7	51	26	188	150	75	300	1.130	531	104	21	171	96
8	32	52	147	150	80	300	1,030	496	89	6.6	100	87
9	39	54	182	120	85	290	962	484	98	14	97	83
10	30	29	167	150	90	280	1.080	447	106	18	62	79
11	19	45	158	150	85	270	1,100	406	87	18	72	53
12	43	49	145	120	80	260	1.310	363	70	58	124	69
13	28	28	140	120	85	250	1,540	341	67	5.2	81	228
14	43	40	130	140	100	240	1,700	335	64	8.6	63	177
15	50	45	140	120	110	260	1.340	296	66	12	53	163
16	84	76	125	100	180	550	1,020	238	63	97	51	158
17	72	81	135	120	175	750	880	204	40	18	44	132
18	51	78	125	130	170	714	817	184	55	26	40	139
19	61	71	125	120	175	615	815	171	34	67	36	171
20	52	80	125	110	155	582	1,090	159	33	253	30	105
21	58	135	130	100	155	534	1,190	164	35	119	32	99
22	44	107	115	85	160	476	1,100	394	66	77	32	98
23	119	142	100	80	155	447	974	286	34	37	51	89
24	152	169	140	100	150	418	858	238	34	47	65	84
25	84	132	120	120	150	386	815	213	28	45	45	57
26	109	104	90	110	135	366	775	366	86	62	39	69
27	85	94	160	105	150	355	739	355	94	32	69	75
28	77	110	160	105	250	343	590	299	53	86	677	73
29	69	147	140	120	------	341	510	263	6.6	43	1.990	45
30	69	142	105	100	------	343	554	225	48	97	973	62
31	51	------	150	110	------	360	------	201	------	77	699	------
TOTAL	2,304	2,396	4,567	3,690	3,485	11,960	29,900	11,250	2,296.6	1,584.4	7,164	4,088
MEAN	74.3	79.9	147	119	124	386	997	363	76.6	51.1	231	136
MAX	191	169	263	150	250	750	1.700	789	199	253	1,990	540
MIN	19	26	90	80	70	240	383	159	6.6	5.2	30	45
CFSM	.40	.43	.79	.64	.66	2.06	5.33	1.94	.41	.27	1.24	.73
IN.	.46	.48	.91	.73	.69	2.38	5.95	2.24	.46	.32	1.43	.81

CAL YR 1970 TOTAL 71,673.7 MEAN 196 MAX 2,600 MIN 4.0 CFSM 1.05 IN 14.26
WTR YR 1971 TOTAL 84,685.0 MEAN 232 MAX 1,990 MIN 5.2 CFSM 1.24 IN 16.85

PEAK DISCHARGE (BASE, 2,600 CFS).--No peak above base.

04280300 Mettawee River tributary near Pawlet, Vt.

LOCATION.--Lat 43°19'43", long 73°10'23", Rutland County, on left bank 20 ft downstream from culvert on State Highway 30, 400 ft upstream from mouth, and 1.2 miles south of Pawlet.

DRAINAGE AREA.--2.95 sq mi.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 2.77 cfs (12.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 23 cfs Apr. 13 (gage height, 3.61 ft), from rating curve extended above 11 cfs; minimum, 0.23 cfs Aug. 11, 19, 20, 25, 26.

Period of record: Maximum discharge, 266 cfs July 21, 1967 (gage height, 4.82 ft), from rating curve extended above 19 cfs on basis of measurement of peak flow through culvert; no flow July 25-28, July 31 to Aug. 7, 1964, July 27, 28, Aug. 4, 1965.

REMARKS.--Records fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	2.9	1.6	1.2	3.6	5.1	8.6	3.9	1.2	.55	.43
2	.92	1.3	2.9	1.6	1.0	3.0	8.3	8.6	3.6	1.0	.43	.38
3	3.4	1.3	2.9	1.6	1.0	2.7	14	9.9	3.4	1.0	.49	.38
4	2.6	1.2	5.5	1.6	1.0	2.6	15	11	3.1	1.0	.55	.43
5	2.2	.92	3.9	3.4	1.0	2.6	11	9.5	2.9	.92	.49	.43
6	1.8	.92	3.9	2.9	.92	2.7	9.9	8.3	2.6	.70	.49	2.2
7	1.6	.92	3.9	2.9	.70	2.8	8.3	6.9	2.4	.62	.38	.92
8	1.5	.92	2.9	2.9	.70	2.7	9.0	6.5	3.6	.55	.38	.55
9	1.5	.80	3.4	2.6	.92	2.6	10	6.5	2.6	.55	.34	.49
10	1.2	.70	3.6	2.6	.70	2.6	13	5.8	2.2	.49	.30	.38
11	1.0	1.0	3.4	2.4	.70	2.5	14	5.1	2.0	.49	.38	.43
12	1.0	.80	3.1	2.4	.70	2.5	14	4.9	1.8	.49	.34	1.3
13	1.5	.70	2.9	2.6	1.6	2.6	17	5.5	1.6	.43	.34	1.8
14	1.3	.62	2.9	4.4	2.4	3.0	20	5.1	1.2	.55	.34	1.2
15	1.5	1.5	2.6	2.9	2.0	6.0	16	4.9	1.0	.62	.38	2.6
16	1.5	1.2	1.8	2.6	1.8	13	14	4.6	1.0	.62	.34	1.5
17	1.3	.92	3.1	2.4	1.8	11	13	4.4	1.0	.70	.30	1.4
18	1.3	.80	2.9	2.3	1.6	9.0	11	4.1	.92	.55	.30	1.3
19	1.3	1.2	2.9	2.2	1.5	7.5	11	3.9	.80	.92	.26	1.2
20	1.2	1.0	3.1	2.1	1.5	6.9	12	3.6	1.8	.80	.23	1.0
21	1.2	2.0	2.4	2.0	1.6	6.3	15	5.5	3.4	.70	.26	2.6
22	1.3	1.6	1.6	1.8	1.5	5.8	13	5.5	1.6	.62	.30	1.5
23	2.4	3.6	1.8	1.6	1.5	5.3	11	4.6	1.3	.43	.38	1.3
24	1.6	2.9	2.4	1.5	1.4	4.8	9.9	4.1	1.3	.38	.38	1.3
25	1.6	2.6	2.6	1.5	1.4	4.6	9.9	4.9	2.4	.38	.23	1.3
26	1.5	2.6	2.4	1.6	1.5	4.4	9.0	8.6	2.2	.38	.26	1.3
27	1.3	2.6	2.4	1.5	2.3	4.3	8.6	6.9	1.3	.43	.34	1.3
28	1.3	3.1	2.0	1.4	4.2	4.4	8.3	6.2	.92	.34	3.1	1.3
29	1.3	3.1	2.0	1.3	------	4.5	10	5.5	.80	.55	1.5	1.2
30	1.3	3.4	2.0	1.2	------	4.8	9.5	4.6	.80	.62	.55	1.0
31	1.3	------	1.8	1.2	------	4.9	------	4.4	------	2.0	.49	------
TOTAL	47.02	47.52	87.9	66.6	40.14	146.0	349.8	188.5	59.44	21.03	15.40	34.42
MEAN	1.52	1.58	2.84	2.15	1.43	4.71	11.7	6.08	1.98	.68	.50	1.15
MAX	3.4	3.6	5.5	4.4	4.2	13	20	11	3.9	2.0	3.1	2.6
MIN	.92	.62	1.6	1.2	.70	2.5	5.1	3.6	.80	.34	.23	.38
CFSM	.52	.54	.96	.73	.48	1.60	3.97	2.06	.67	.23	.17	.39
IN.	.59	.60	1.11	.84	.51	1.84	4.41	2.38	.75	.27	.19	.43

CAL YR 1970 TOTAL 1,273.93 MEAN 3.49 MAX 28 MIN .20 CFSM 1.18 IN 16.06
WTR YR 1971 TOTAL 1,103.77 MEAN 3.02 MAX 20 MIN .23 CFSM 1.02 IN 13.92

PEAK DISCHARGE (BASE, 40 CFS).--No peak above base.

NOTE.--No gage-height record Feb. 20 to Mar. 29.

04281500 East Creek at Rutland, Vt.

LOCATION.--Lat 43°37'43", long 72°59'22", Rutland County, on left bank on grounds of Rutland Country Club, at Rutland, 280 ft downstream from Grove Street Bridge and 2 miles upstream from mouth.

DRAINAGE AREA.--51.1 sq mi.

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 570 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 95.5 cfs (25.38 inches per year), adjusted for diversion and storage.

EXTREMES.--Current year: Maximum discharge, 1,170 cfs Aug. 28 (gage height, 3.82 ft), from rating curve extended above 490 cfs on basis of computation of flow over dam and slope-area measurement at gage height 7.10 ft; minimum daily, 17 cfs July 6, 7.

Period of record: Maximum discharge, 36,500 cfs June 3, 1947 (gage height, 20.3 ft, from high-water mark in gage house), mean of two slope-area measurements, caused by failure of East Pittsford Dam 5.8 miles upstream; minimum daily, 3.1 cfs Nov. 8, 1947.

REMARKS.--Records good except those for winter period, which are fair. Diversion above station from Mendon Brook for municipal supply of Rutland. Flow regulated by powerplants and by Chittenden Reservoir 11 miles upstream (usable capacity, 819,800,000 cu ft); prior to June 3, 1947, also regulated by East Pittsford Reservoir (usable capacity, 150,000,000 cu ft). See table below for figures of diversion and monthend contents in Chittenden Reservoir.

REVISIONS (WATER YEARS).--WSP 1307: 1941-42(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	30	85	41	80	111	160	199	75	21	39	39
2	24	63	77	34	70	92	195	230	85	24	97	31
3	60	53	75	23	55	56	216	400	104	19	148	26
4	73	69	106	70	70	31	154	436	101	18	139	23
5	40	55	53	114	45	29	122	310	59	18	79	25
6	106	47	48	122	25	37	109	270	44	17	78	24
7	92	23	81	97	23	40	99	262	96	17	37	28
8	55	23	61	95	81	38	101	242	84	20	41	23
9	45	44	109	48	67	133	101	286	112	19	67	22
10	33	23	117	33	71	169	145	223	95	19	87	22
11	30	26	104	65	73	173	136	230	95	18	77	21
12	34	30	51	90	61	163	227	282	51	19	80	19
13	90	29	45	73	29	45	298	310	35	38	56	63
14	50	21	77	99	53	33	306	238	26	55	28	42
15	111	31	97	104	55	133	209	136	55	46	24	66
16	106	69	95	38	88	315	202	122	41	29	55	94
17	48	31	99	31	95	242	145	157	21	21	82	101
18	45	50	99	69	79	202	142	145	21	24	69	51
19	61	88	50	73	75	192	230	139	20	128	69	28
20	79	60	47	55	35	114	351	145	20	126	55	70
21	73	63	75	48	34	56	324	163	20	92	26	90
22	73	51	111	22	85	125	282	179	20	74	25	86
23	104	95	101	22	65	182	216	99	21	58	78	83
24	53	90	81	22	83	179	160	114	20	27	65	72
25	41	60	48	80	83	179	182	120	18	23	74	30
26	92	41	45	90	75	179	157	176	58	59	76	22
27	51	38	30	50	60	176	179	139	28	84	80	84
28	65	40	104	70	85	179	199	136	20	80	424	66
29	65	58	88	45	------	176	227	81	18	67	206	41
30	61	90	90	23	------	179	199	73	27	117	90	40
31	31	------	90	25	------	166	------	58	------	80	51	------
TOTAL	1,956	1,491	2,439	1,871	1,800	4,124	5,773	6,100	1,490	1,457	2,602	1,432
MEAN	63.1	49.7	78.7	60.4	64.3	133	192	197	49.7	47.0	83.9	47.7
MAX	111	95	117	122	95	315	351	436	112	128	424	101
MIN	24	21	30	22	23	29	99	58	18	17	24	19
(†)	6.34	6.20	6.08	6.14	6.21	6.34	5.96	6.34	6.44	6.61	5.92	5.81
(‡)	501.4	507.1	448.5	381.6	331.9	198.6	391.1	655.6	649.9	622.5	603.4	594.1
MEAN††	68.9	58.1	62.9	41.5	49.9	89.6	273	302	53.9	43.4	82.7	50.0
CFSM††	1.35	1.14	1.23	.81	.98	1.75	5.34	5.91	1.05	.85	1.62	.98
IN.††	1.55	1.27	1.42	.94	1.02	2.02	5.95	6.81	1.18	.98	1.87	1.09

CAL YR 1970 TOTAL 35,864.4 MEAN 98.3 MAX 595 MIN 8.1 MEAN†† 101 CFSM†† 1.98 IN†† 26.90
WTR YR 1971 TOTAL 32,535 MEAN 89.1 MAX 436 MIN 17 MEAN†† 98.2 CFSM†† 1.92 IN†† 26.10

† Diversion, in cubic feet per second, from Mendon Brook for municipal supply of Rutland; records furnished by city of Rutland.
‡ Monthend contents, in millions of cubic feet, in Chittenden Reservoir; records furnished by Central Vermont Public Service Corp.
†† Adjusted for diversion and change in contents in Chittenden Reservoir.

04282000 Otter Creek at Center Rutland, Vt.

LOCATION.--Lat 43°36'13", long 73°00'49", Rutland County, on right bank 500 ft upstream from bridge on U.S. Highway 4 at Center Rutland, 200 ft downstream from dam, 1.2 miles downstream from East Creek, and 1.5 miles west of Rutland.

DRAINAGE AREA.--307 sq mi.

PERIOD OF RECORD.--May 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 474.80 ft above mean sea level; prior to Oct. 1, 1964, datum was 1.00 ft higher. Prior to July 22, 1929, nonrecording gage at same site.

AVERAGE DISCHARGE.--43 years, 528 cfs (23.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,080 cfs May 5 (gage height, 7.09 ft); minimum daily, 93 cfs July 12.
Period of record: Maximum discharge, 13,700 cfs Sept. 22, 1938 (gage height, 13.45 ft, present datum), from rating curve extended above 7,400 cfs on basis of computation of peak flow over dam; minimum daily, 45 cfs Sept. 21, 1947, Aug. 7, 1965.

REMARKS.--Records good. Flow regulated by powerplants and Chittenden Reservoir 14 miles upstream on East Creek (usable capacity, 819,800,000 cu ft); prior to June 3, 1947, also regulated by East Pittsford Reservoir (usable capacity, 150,000,000 cu ft). See table with station 04281500 for monthend contents in Chittenden Reservoir. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1084: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	213	457	245	210	521	540	1,540	524	155	339	260
2	209	230	411	218	217	459	717	1,560	472	223	305	202
3	280	228	386	212	200	394	1,260	2,020	489	179	307	169
4	527	237	519	240	210	316	1,270	2,810	467	144	366	154
5	391	222	588	334	194	286	1,040	2,880	408	133	288	145
6	336	213	473	455	174	346	962	2,400	330	121	214	135
7	261	182	375	456	162	322	935	2,220	352	115	165	131
8	223	169	265	377	196	311	835	2,100	321	112	142	120
9	200	184	386	279	224	373	790	2,110	491	105	151	115
10	176	163	460	265	221	413	1,020	2,070	414	102	159	112
11	165	193	392	286	222	418	1,060	1,940	342	97	198	109
12	167	239	339	316	212	409	1,380	1,980	277	93	222	128
13	236	217	312	249	199	288	1,800	1,860	234	109	165	241
14	213	194	341	261	267	274	2,130	1,800	211	144	126	209
15	282	231	346	313	378	404	1,900	1,430	211	139	110	268
16	350	395	279	244	421	1,060	1,530	1,080	209	119	125	333
17	315	342	331	215	407	1,310	1,190	981	173	131	162	304
18	277	310	346	215	361	1,060	1,140	906	161	128	143	224
19	279	312	304	215	340	866	1,310	853	148	258	139	169
20	299	414	305	215	288	687	1,920	809	143	433	121	184
21	253	560	332	215	273	620	2,350	838	149	292	103	231
22	282	623	324	180	315	580	2,370	1,230	176	205	101	266
23	514	614	346	179	308	560	2,040	962	154	170	178	226
24	614	642	321	180	304	540	1,530	735	137	123	149	200
25	426	457	291	192	296	520	1,510	680	150	111	146	151
26	388	369	271	250	280	510	1,350	1,340	498	105	138	128
27	323	343	238	258	311	520	1,350	1,450	381	150	145	178
28	309	348	277	301	487	527	1,450	1,030	232	160	921	160
29	292	437	304	275	------	523	1,590	791	178	140	1,250	148
30	271	463	262	196	------	534	1,660	664	163	264	703	127
31	233	------	291	184	------	537	------	579	------	348	384	------
TOTAL	9,375	9,744	10,872	8,020	7,675	16,488	41,929	45,548	8,595	5,108	8,165	5,527
MEAN	302	325	351	259	274	532	1,398	1,469	287	165	263	184
MAX	614	642	588	456	487	1,310	2,370	2,880	524	433	1,250	333
MIN	165	163	238	179	162	274	540	579	137	93	101	109
CFSM	.98	1.06	1.14	.84	.89	1.73	4.55	4.79	.93	.54	.86	.60
IN.	1.14	1.18	1.32	.97	.93	2.00	5.08	5.52	1.04	.62	.99	.67

CAL YR 1970 TOTAL 195,241 MEAN 535 MAX 4,160 MIN 72 CFSM 1.74 IN 23.66
WTR YR 1971 TOTAL 177,046 MEAN 485 MAX 2,880 MIN 93 CFSM 1.58 IN 21.45

PEAK DISCHARGE (BASE, 3,400 CFS).--No peak above base.

04282500 Otter Creek at Middlebury, Vt.

LOCATION.--Lat 44°00'47", long 73°10'06", Addison County, on right bank 150 ft upstream from highway bridge in Middlebury, and 3.5 miles downstream from Middlebury River.

DRAINAGE AREA.--628 sq mi.

PERIOD OF RECORD.--April 1903 to April 1907, October 1910 to January 1920, October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.75 ft above mean sea level. Apr. 1, 1903, to Apr. 30, 1907, and Oct. 5, 1910, to Jan. 31, 1920, nonrecording gage at site 1,800 ft upstream at datum 10 ft lower, and Oct. 1, 1928, to Oct. 17, 1933, at present datum.

AVERAGE DISCHARGE.--55 years (1903-6, 1910-19, 1928-71), 947 cfs (20.48 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,460 cfs May 11 (gage height, 5.23 ft); minimum daily, 176 cfs July 11.

Period of record: Maximum discharge, 11,000 cfs Mar. 20, 21, 1936 (gage height, 10.3 ft); minimum daily, 92 cfs Aug. 9, 1965.

Maximum discharge since at least 1830, 13,600 cfs Nov. 4, 1927 (gage height, 13.3 ft, present datum, at site 1,800 ft upstream), from rating curve extended above 9,000 cfs.

REMARKS.--Records good. Some regulation by Chittenden Reservoir (usable capacity, 819,800,000 cu ft) on East Creek; see table with station 04281500 for monthend contents. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 434: 1903-4. WSP 684: 1913(M), drainage area. WSP 1114: 1913. WSP 1207: 1929, 1931.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	599	359	855	509	370	967	1,190	2,930	1,290	309	593	1,480
2	550	345	785	424	410	1,010	1,230	2,900	1,070	339	677	1,130
3	434	365	723	364	430	1,020	1,720	3,020	863	358	947	799
4	448	362	782	379	420	939	2,070	3,260	794	328	1,250	614
5	662	363	942	483	400	810	2,160	3,260	757	262	907	408
6	595	352	926	541	380	705	2,250	3,240	697	246	699	627
7	507	331	755	645	362	698	2,300	3,250	564	263	517	490
8	429	253	550	670	342	680	2,330	3,310	557	248	359	468
9	366	264	530	583	462	705	2,370	3,400	580	219	284	398
10	319	319	668	448	495	716	2,440	3,430	635	194	338	337
11	236	312	770	430	468	764	2,470	3,440	630	176	334	342
12	255	248	714	470	473	782	2,590	3,410	537	182	348	309
13	338	344	554	490	484	741	2,700	3,380	455	224	326	408
14	357	359	521	463	513	663	2,750	3,310	386	249	296	594
15	399	322	548	450	653	627	2,710	3,230	422	263	220	588
16	580	448	540	450	755	980	2,730	3,140	381	270	221	562
17	607	593	566	445	830	1,350	2,750	3,030	381	261	263	588
18	530	563	597	400	848	1,440	2,790	2,900	321	216	221	575
19	518	505	577	450	820	1,470	2,820	2,740	293	213	220	457
20	499	618	499	470	778	1,470	2,900	2,560	236	517	211	387
21	478	751	500	455	685	1,410	2,980	2,390	273	629	200	440
22	521	857	540	421	659	1,360	3,010	2,280	318	483	189	440
23	755	909	540	378	685	1,330	2,970	2,130	300	358	254	440
24	986	986	571	310	725	1,300	2,960	2,020	292	308	438	424
25	968	973	546	317	724	1,270	3,010	1,900	283	320	345	398
26	756	770	481	401	692	1,220	3,040	1,860	430	238	322	295
27	697	595	439	447	685	1,180	3,040	1,830	627	284	295	249
28	627	579	418	470	785	1,150	3,040	1,810	585	306	1,010	347
29	593	731	495	504	------	1,120	3,040	1,770	438	335	1,840	347
30	506	785	555	481	------	1,120	2,990	1,700	365	506	1,750	304
31	437	------	558	400	------	1,160	------	1,540	------	563	1,680	------
TOTAL	16,552	15,561	19,045	14,148	16,333	32,157	77,350	84,370	15,760	9,667	17,554	15,245
MEAN	534	519	614	456	583	1,037	2,578	2,722	525	312	566	508
MAX	986	986	942	670	848	1,470	3,040	3,440	1,290	629	1,840	1,480
MIN	236	248	418	310	342	627	1,190	1,540	236	176	189	249
CFSM	.85	.83	.98	.73	.93	1.65	4.11	4.33	.84	.50	.90	.81
IN.	.98	.92	1.13	.84	.97	1.90	4.58	5.00	.93	.57	1.04	.90

CAL YR 1970 TOTAL 340,323 MEAN 932 MAX 4,370 MIN 119 CFSM 1.48 IN 20.16

WTR YR 1971 TOTAL 333,742 MEAN 914 MAX 3,440 MIN 176 CFSM 1.46 IN 19.77

04282700 Lewis Creek tributary at Starksboro, Vt.

LOCATION.--Lat 44°12'59", long 73°03'21", Addison County, on right bank 25 ft downstream from culvert on State Highway 116, 0.3 mile upstream from mouth, and 0.7 mile south of Starksboro.

DRAINAGE AREA.--5.31 sq mi.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 5.70 cfs (14.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 721 cfs Sept. 6 (gage height, 4.81 ft), from rating curve extended above 97 cfs; minimum, 0.27 cfs July 26, 27.

Period of record: Maximum discharge, 721 cfs Sept. 6, 1971 (gage height, 4.81 ft), from rating curve extended above 97 cfs; minimum, 0.14 cfs Sept. 21-25, 27, 1964.

REMARKS.--Records good except those for winter period, which are fair. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	1.3	6.8	2.8	1.7	4.6	4.8	49	2.5	.89	.37	2.7
2	.53	1.2	6.2	2.8	1.6	4.3	11	49	2.1	.89	.29	1.5
3	.61	1.1	5.5	2.8	1.6	3.8	31	91	2.1	.46	23	1.1
4	.66	1.0	6.0	2.6	1.6	4.2	27	160	1.7	.39	5.1	.90
5	.61	1.0	5.5	2.8	1.6	4.5	22	89	1.3	.37	1.2	.90
6	.57	1.0	5.5	3.0	1.6	4.5	21	52	1.2	.37	.68	57
7	.57	.95	3.5	3.0	1.5	4.3	21	35	.97	.37	.52	15
8	.53	.88	2.8	2.7	1.5	4.5	18	26	.89	.35	.44	9.0
9	.53	.88	3.5	2.7	1.5	4.2	18	23	.82	.35	.42	6.1
10	.53	.82	3.5	3.0	1.5	4.2	26	18	.76	.35	.39	4.4
11	.53	.95	3.0	2.8	1.6	4.2	30	14	.64	.31	.80	3.1
12	.53	1.0	2.8	2.7	1.6	3.7	51	14	.59	.29	.55	3.7
13	.66	.88	2.7	2.6	1.7	4.2	113	13	.54	.31	.44	3.5
14	.71	1.1	2.6	2.6	3.2	3.7	70	9.9	.54	.89	.44	3.3
15	7.2	3.5	2.5	2.6	3.2	8.2	31	8.5	.50	.42	.39	2.9
16	8.2	4.5	2.4	2.6	3.0	24	22	6.4	.50	.35	.39	1.9
17	4.0	3.2	2.7	2.6	3.5	19	19	6.8	.50	.37	.39	1.5
18	2.8	2.[illegible]	2.8	2.4	3.2	17	19	6.1	.50	.42	.39	2.5
19	2.4	3.0	2.8	2.2	3.2	13	34	5.1	.46	.35	.39	1.5
20	1.7	4.0	2.8	2.1	3.2	11	91	3.7	.46	.37	.39	4.7
21	1.5	9.7	2.7	1.9	3.2	9.7	152	4.0	1.1	.33	.42	4.4
22	1.7	7.2	2.6	1.9	3.2	8.2	96	5.4	.97	.31	.42	2.7
23	7.5	7.2	3.0	1.9	3.2	7.2	37	3.7	.54	.29	7.6	1.9
24	6.2	5.5	2.9	1.9	3.2	6.6	31	3.3	.46	.29	.90	2.1
25	3.7	4.2	2.8	1.9	2.8	6.0	30	4.0	.70	.31	.58	1.3
26	2.6	3.5	2.8	1.9	3.0	5.6	27	8.0	.97	.29	.52	1.1
27	2.2	3.2	2.8	2.1	3.4	5.2	29	7.6	.59	.37	.52	.96
28	2.1	7.9	2.8	1.9	5.0	5.0	31	6.4	.50	.33	42	.85
29	1.9	9.2	2.8	1.9	------	4.9	44	5.1	.46	.31	29	.80
30	1.6	8.2	2.8	1.9	------	4.8	38	4.0	.42	.31	8.5	.76
31	1.5	------	2.8	1.7	------	4.8	------	3.1	------	1.1	4.4	------
TOTAL	66.90	100.26	106.7	74.3	70.1	219.1	1,192.8	734.1	26.28	13.11	131.84	144.07
MEAN	2.16	3.34	3.44	2.40	2.50	7.07	39.8	23.7	.88	.42	4.25	4.80
MAX	8.2	9.7	6.8	3.0	5.0	24	152	160	2.5	1.1	42	57
MIN	.53	.82	2.4	1.7	1.5	3.7	4.8	3.1	.42	.29	.29	.76
CFSM	.41	.63	.65	.45	.47	1.33	7.50	4.46	.17	.08	.80	.90
IN.	.47	.70	.75	.52	.49	1.53	8.36	5.14	.18	.09	.92	1.01

CAL YR 1970 TOTAL 2,877.82 MEAN 7.88 MAX 137 MIN .40 CFSM 1.48 IN 20.16
WTR YR 1971 TOTAL 2,879.56 MEAN 7.89 MAX 160 MIN .29 CFSM 1.49 IN 20.17

PEAK DISCHARGE (BASE, 100 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	1945	4.08	187	8-28	1400	4.51	438
4-21	1800	4.23	257	9-6	0130	4.81	721
5-4	0215	4.19	235				
8-3	1600	4.17	226				

04284000 Jail Branch at East Barre, Vt.

LOCATION.--Lat 44°09'40", long 72°27'02", Washington County, on right bank 75 ft downstream from highway bridge, at East Barre, 0.6 mile downstream from East Barre Detention Reservoir, and 3.9 miles upstream from mouth.

DRAINAGE AREA.--40.4 sq mi.

PERIOD OF RECORD.--August 1920 to September 1923, October 1933 to current year. October 1933 monthly discharge only, published in WSP 1307. Prior to October 1922, published as Jail Brook at East Barre.

GAGE.--Water-stage recorder. Datum of gage is 1,069.59 ft above mean sea level (levels by Corps of Engineers). Nov. 1, 1933, to Sept. 30, 1964, datum was 2.00 ft higher. Aug. 14, 1920, to Sept. 30, 1923, nonrecording gage at site 0.2 mile upstream at different datum. Nov. 1, 1933, to Jan. 25, 1935, nonrecording gage at present site.

AVERAGE DISCHARGE.--41 years, 52.1 cfs (17.51 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 538 cfs May 4 (gage height, 3.48 ft); minimum, 1.9 cfs July 13.

Period of record: Maximum discharge, 1,820 cfs Oct. 1, 1920 (gage height, 9.50 ft, from graph based on gage readings, site and datum then in use), from rating curve extended above 900 cfs; minimum, 0.1 cfs Aug. 18, 1950, Aug. 3, 4, 31, Sept. 1, 3, 1953. Maximum discharge since construction of East Barre Detention Reservoir in 1935, 634 cfs Apr. 19, 1969 (gage height, 3.31 ft); maximum gage height, 6.35 ft (present datum) Feb. 17, 1939 (ice jam).

REMARKS.--Records good except those for winter period, which are fair. Discharge affected by East Barre Detention Reservoir since 1935 (see p. 233). Prior to 1964, occasional diurnal fluctuation at low flow caused by mill above station. Diversion from reservoir on Orange Brook, a tributary above station, for city of Barre.

REVISIONS (WATER YEARS).--WSP 564: 1922. WSP 1034: Drainage area. WSP 1307: 1921-23(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	4.4	19	6.2	4.9	15	21	324	31	6.6	12	17
2	7.1	3.9	18	6.0	4.9	13	23	317	25	12	85	13
3	8.2	3.9	18	6.0	4.7	12	92	403	25	8.2	63	11
4	16	3.9	27	6.1	4.7	12	113	514	23	6.3	101	11
5	12	3.9	20	6.8	4.6	11	70	519	19	7.6	38	11
6	8.9	3.9	14	7.3	4.5	11	64	498	17	5.6	19	10
7	7.5	3.9	9.0	7.2	4.4	12	64	488	17	4.0	15	11
8	6.7	3.9	6.3	6.5	4.4	12	49	470	16	3.3	11	9.0
9	6.0	3.6	7.0	6.8	5.2	12	50	448	22	2.8	9.3	8.2
10	5.0	3.6	7.2	7.3	6.1	12	78	408	16	2.8	7.2	7.6
11	4.7	5.3	6.6	7.0	6.0	11	97	345	14	2.5	6.3	6.9
12	4.7	8.2	6.6	6.6	5.9	11	151	280	12	2.2	6.9	8.2
13	5.0	6.7	6.6	6.4	6.6	11	213	211	12	2.0	5.6	13
14	6.3	6.0	6.6	6.5	11	11	244	220	11	6.9	5.2	16
15	13	8.6	5.8	6.4	20	15	153	157	11	8.2	4.7	19
16	23	16	5.6	6.2	16	55	123	130	12	4.5	4.4	15
17	15	13	6.0	6.5	14	70	98	151	9.7	4.3	3.9	24
18	11	9.8	6.6	6.8	14	38	113	130	8.6	9.7	3.6	23
19	8.9	10	6.5	6.5	13	29	153	101	7.2	7.2	3.3	15
20	7.8	18	6.5	6.2	12	27	317	85	6.6	28	3.0	12
21	7.5	26	6.2	5.9	11	25	369	97	8.6	10	6.0	16
22	7.5	17	6.0	5.5	11	21	350	140	24	6.6	5.0	15
23	20	22	6.6	5.2	10	22	271	95	12	4.8	11	12
24	15	17	6.6	4.9	10	22	189	73	8.2	4.3	11	10
25	9.9	13	6.6	4.9	9.0	21	260	67	7.9	4.3	6.6	9.3
26	8.0	10	6.5	5.1	13	20	240	113	19	4.0	5.8	8.2
27	6.6	9.3	6.5	5.4	12	20	249	92	12	3.8	5.5	7.9
28	6.0	14	6.5	5.2	17	20	251	82	9.3	3.8	182	7.2
29	5.6	22	6.3	5.0	------	21	326	65	7.6	12	194	6.6
30	5.0	19	6.2	4.8	------	22	338	50	6.6	39	47	7.6
31	4.7	------	6.2	4.5	------	22	------	44	------	13	28	------
TOTAL	281.9	305.8	279.1	187.7	259.9	636	5,129	7,117	430.3	240.3	909.3	360.7
MEAN	9.09	10.3	9.00	6.05	9.28	20.5	171	230	14.3	7.75	29.3	12.0
MAX	23	26	27	7.3	20	70	369	519	31	39	194	24
MIN	4.7	3.6	5.6	4.5	4.4	11	21	44	6.6	2.0	3.0	6.6
MEAN†	9.35	10.1	9.00	6.02	9.82	20.2	178	223	13.9	7.64	29.9	12.9
CFSM†	.23	.25	.22	.15	.24	.50	4.41	5.52	.34	.19	.74	.32
IN.†	.27	.28	.26	.17	.25	.58	4.91	6.37	.38	.22	.85	.36

CAL YR 1970 TOTAL 18,033.26 MEAN 49.4 MAX 561 MIN .62 MEAN† 49.3 CFSM† 1.22 IN† 16.58
WTR YR 1971 TOTAL 16,141.00 MEAN 44.2 MAX 519 MIN 2.0 MEAN† 44.3 CFSM† 1.10 IN† 14.90

† Adjusted for change in contents in East Barre Detention Reservoir.
NOTE.--No gage-height record Dec. 15 to Feb. 21.

04285500 North Branch Winooski River at Wrightsville, Vt.

LOCATION.--Lat 44°17'58", long 72°34'45", Washington County, on right bank at Wrightsville, 0.8 mile downstream from Wrightsville Detention Reservoir and 3.5 miles upstream from mouth.

DRAINAGE AREA.--69.2 sq mi.

PERIOD OF RECORD.--October 1933 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 550.53 ft above mean sea level (levels by Corps of Engineers). Prior to Nov. 21, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--38 years, 127 cfs (24.92 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 715 cfs about May 8 (gage height, 3.47 ft, from peak-stage indicator); minimum daily, 3.9 cfs July 12, 13.

Period of record: Maximum discharge, 2,170 cfs Apr. 12, 1934 (gage height, 6.53 ft), from rating curve extended above 920 cfs; minimum daily, 0.2 cfs Aug. 13, 1941. Maximum discharge since construction of Wrightsville Detention Reservoir in 1935, 1,040 cfs Mar. 21, 1936 (gage height, 4.32 ft); maximum gage height, 5.43 ft Mar. 12, 1936 (ice jam).

Maximum discharge since at least 1830, 17,200 cfs Nov. 3, 1927, by computation of peak flow over dam 0.8 mile above gage.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are fair. Discharge affected since 1935 by Wrightsville Detention Reservoir (see following page). Occasional diurnal fluctuation at low flow caused by small mill above station; more frequent diurnal fluctuation prior to 1968.

REVISIONS (WATER YEARS).--WSP 1237: 1934-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	41	127	47	36	103	77	520	73	16	16	348
2	33	38	115	46	35	92	87	530	61	75	18	134
3	33	36	122	46	34	84	228	560	60	37	145	46
4	51	34	117	47	33	87	301	600	60	19	378	38
5	56	33	90	50	33	83	239	640	50	9.4	253	33
6	52	30	91	55	33	80	197	670	42	6.8	60	29
7	40	29	76	54	33	77	201	680	38	5.6	27	27
8	33	27	57	50	35	74	173	690	53	5.0	18	24
9	27	26	65	50	41	72	168	680	97	4.5	13	21
10	23	25	62	56	48	68	214	650	66	4.2	11	18
11	23	37	57	54	52	70	263	630	44	4.0	13	16
12	23	65	54	50	55	68	357	580	35	3.9	16	99
13	27	55	53	48	60	66	432	530	31	3.9	15	150
14	43	46	52	49	90	68	490	470	26	6.0	13	119
15	155	65	49	48	150	79	500	440	23	14	11	159
16	290	113	45	46	130	172	450	400	22	12	9.5	107
17	146	94	47	45	115	200	400	330	20	10	8.6	70
18	88	73	52	54	105	150	350	270	17	12	7.7	74
19	66	68	50	52	105	130	380	240	17	9.0	6.6	87
20	53	117	49	50	97	123	440	210	14	7.4	5.9	99
21	45	268	47	45	93	112	510	180	14	6.6	6.0	213
22	45	281	46	42	87	100	540	150	34	6.0	7.9	151
23	213	170	53	40	83	91	550	110	27	5.6	72	97
24	201	137	50	38	80	91	560	100	18	5.2	93	75
25	123	105	50	37	76	89	540	103	16	5.0	41	59
26	91	78	50	36	72	83	520	214	26	4.8	25	46
27	75	84	50	36	77	81	510	174	27	5.0	19	38
28	63	95	49	38	104	81	500	171	19	6.6	264	34
29	54	166	48	40	------	86	500	134	14	8.5	526	33
30	48	137	47	39	------	82	500	108	12	11	494	32
31	44	------	47	38	------	80	------	90	------	13	433	------
TOTAL	2,306	2,573	1,967	1,426	1,992	2,922	11,177	11,854	1,056	342.0	3,026.2	2,476
MEAN	74.4	85.8	63.5	46.0	71.1	94.3	373	382	35.2	11.0	97.6	82.5
MAX	290	281	127	56	150	200	560	690	97	75	526	348
MIN	23	25	45	36	33	66	77	90	12	3.9	5.9	16
MEAN†	74.4	86.7	62.7	45.8	72.0	94.0	446	311	34.2	11.1	109	70.8
CFSM†	1.08	1.25	.91	.66	1.04	1.36	6.45	4.49	.49	.16	1.58	1.02
IN.†	1.24	1.40	1.05	.76	1.08	1.57	7.20	5.18	.55	.19	1.82	1.14

CAL YR 1970 TOTAL 40,750.6 MEAN 112 MAX 781 MIN 2.4 MEAN† 112 CFSM† 1.62 IN† 21.91
WTR YR 1971 TOTAL 43,117.2 MEAN 118 MAX 690 MIN 3.9 MEAN† 118 CFSM† 1.71 IN† 23.18

† Adjusted for change in contents in Wrightsville Detention Reservoir.

NOTE.--No gage-height record Dec. 10 to Jan. 20, Apr. 14 to May 24, July 4-30, Aug. 6-17.

Reservoirs in Winooski River basin above Montpelier, Vt.

04283500. EAST BARRE DETENTION RESERVOIR.--Lat 44°09'18", long 72°26'42", Washington County, at dam on Jail Branch at East Barre, 4.5 miles upstream from mouth. Drainage area, 38.8 sq mi. Period of record, February 1936 (in WSP 1307), March and April 1936 (in WSP 798), May 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Aug. 30, 1960, nonrecording gage, and Aug. 30 to Sept. 30, 1960, water-stage recorder, at present site at datum 1,127.9 ft above mean sea level. Maximum elevation for current year, 1,146.23 ft May 4. Maximum elevation for period of record, 1,163.9 ft, present datum, Mar. 22, 1936.

Reservoir is formed by earthfill dam completed by Corps of Engineers in 1935 for flood control. Usable capacity of reservoir, 525,000,000 cu ft betwen elevation 1,124.9 ft (bottom of outlet opening) and 1,165.0 ft (crest of spillway). Dam has no gates; below elevation 1,165.0 ft, outflow from reservoir is dependent on capacity of outlet opening near base of dam. Outlet-opening enlargement and reservoir-construction modifications completed in November 1959. Size of opening since enlargement, height, 7 ft and average width, 3.7 ft. Figures given herein represent usable contents.

04285000. WRIGHTSVILLE DETENTION RESERVOIR.--Lat 44°18'38", long 72°34'31", Washington County, at dam on North Branch Winooski River at Wrightsville, 0.3 mile downstream from Long Meadow Brook and 4.2 miles upstream from mouth. Drainage area, 66.5 sq mi. Period of record, November 1935 to February 1936 (in WSP 1307), March to May 1936 (in WSP 798), June 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to July 28, 1960, nonrecording gage, and July 28 to Sept. 30, 1960, water-stage recorder, at present site at datum 612.75 ft above mean sea level. Extremes for current year: Maximum elevation not determined; minimum, 619.93 ft July 13. Extremes for period of record: Maximum elevation, 676.4 ft, present datum, Mar. 22, 1936, from graph based on gage readings; minimum observed, 613.0 ft Aug. 17, 1949, and Aug. 17-19, 1950.

Reservoir is formed by earthfill dam completed by Corps of Engineers in 1935 for flood control; modification of intake-structure works to create a recreational pool completed in June 1965. Usable capacity for recreation, 22,000,000 cu ft between elevations 612.75 ft (bottom of outlet opening) and 620.00 ft; for flood control, 851,500,000 cu ft between elevations 620.00 ft and 685.00 ft (crest of spillway); total usable capacity, 873,500,000 cu ft. Dam has no gates; below elevation 685.00 ft, outflow from reservoir is dependent on capacity of outlet opening, 5.25 ft square near base of dam. Figures given herein represent usable contents.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

Date	Elevation (feet)	Contents (millions of cubic feet)	Change in contents	
			Millions of cubic feet	Equivalent, cubic feet per second
		04283500 East Barre Detention Reservoir		
Sept. 30	1,128.24	3.5	-	-
Oct. 31	1,128.89	4.2	+0.7	+0.26
Nov. 30	1,128.47	3.7	-.5	-.19
Dec. 31	1,128.43	3.7	0	0
CAL YR 1970	-	-	-2.7	-.09
Jan. 31	1,128.35	3.6	-.1	-.04
Feb. 28	1,129.46	4.9	+1.3	+.54
Mar. 31	1,128.71	4.0	-.9	-.34
Apr. 30	1,137.85	21.8	+17.8	+6.87
May 31	1,129.32	4.7	-17.1	-6.38
June 30	1,128.26	3.5	-1.2	-.46
July 31	1,127.97	3.2	-.3	-.11
Aug. 31	1,129.41	4.8	+1.6	+.60
Sept. 30	1,131.09	7.0	+2.2	+.85
WTR YR 1971	-	-	+3.5	+.11
		04285000 Wrightsville Detention Reservoir		
Sept. 30	620.34	23.4	-	-
Oct. 31	620.33	23.3	-0.1	-0.04
Nov. 30	620.92	25.6	+2.3	+.89
Dec. 31	620.40	23.6	-2.0	-.75
CAL YR 1970	-	-	+.1	+.003
Jan. 31	610.31	23.2	-.4	-.15
Feb. 28	620.80	25.2	+2.0	+.83
Mar. 31	620.61	24.4	-.8	-.30
Apr. 30	646.25	215.7	+191.3	+73.8
May 31	620.72	24.8	-190.9	-71.3
June 30	620.05	22.2	-2.6	-1.00
July 31	620.13	22.5	+.3	+.11
Aug. 31	626.90	53.5	+31.0	+11.6
Sept. 30	620.29	23.2	-30.3	+11.7
WTR YR 1971	-	-	-0.2	-.01

04286000 Winooski River at Montpelier, Vt.

LOCATION.--Lat 44°15'23", long 72°35'36", Washington County, on right bank 0.4 mile upstream from Dog River and 1 mile downstream from depot at Montpelier.

DRAINAGE AREA.--397 sq mi.

PERIOD OF RECORD.--May 1909 to June 1914 (fragmentary), July 1914 to September 1923, August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 499.99 ft above mean sea level. Prior to June 16, 1914, nonrecording gage at site 0.9 mile upstream at different datum. June 16 to July 3, 1914, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--52 years (1914-23, 1928-71), 568 cfs (19.43 inches per year), adjusted for storage since October 1935.

EXTREMES.--Current year: Maximum discharge, 8,080 cfs May 4 (gage height, 11.96 ft), from rating curve extended above 4,200 cfs on basis of computations of flow over dam at gage heights 13.90 and 14.11 ft and slope-area measurement at gage height 13.90 ft; minimum daily, 82 cfs July 12, 13.
Period of record: Maximum discharge, 17,200 cfs Apr. 7, 1912 (gage height, 17.31 ft, from floodmarks, present datum), from rating curve extended above 6,900 cfs; minimum daily, 17 cfs Sept. 3, 1933.
Maximum discharge since at least 1830, 57,000 cfs Nov. 3, 1927 (gage height, 27.1 ft), from rating curve extended above 6,900 cfs.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by several small powerplants above station, by Peacham Pond and, since 1926, by Mollys Falls Reservoir (combined usable capacity, 492,000,000 cu ft), which regulate runoff from 24 sq mi, and by East Barre and Wrightsville Detention Reservoirs since 1935 (see preceding page). See table below for monthend contents in Peacham Pond and Mollys Falls Reservoir. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 424: 1915. WSP 894: Drainage area. WSP 1437: 1912-14(M), 1915-18, 1919(M), 1920, 1921(M), 1922-23, 1929, 1933, 1934(M), 1936, 1937(M), 1938, 1946(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	122	347	210	195	450	420	2,800	428	132	130	599
2	132	143	326	205	170	470	430	2,680	403	225	263	375
3	134	128	334	200	175	430	883	4,160	390	180	929	233
4	146	124	340	195	180	400	1,090	6,670	391	135	1,850	206
5	162	120	300	205	180	380	879	4,290	372	121	977	191
6	169	119	244	220	160	370	845	3,600	289	114	417	181
7	141	166	230	230	145	360	870	3,280	273	108	249	175
8	122	97	215	225	150	370	724	2,980	355	105	193	164
9	114	117	230	225	180	400	725	2,720	509	98	162	152
10	107	108	270	190	200	400	951	2,480	370	94	142	141
11	99	114	260	200	210	400	1,110	2,330	287	88	140	157
12	99	176	250	220	220	400	1,660	2,100	275	82	149	202
13	103	185	230	215	215	400	1,990	1,970	224	82	133	332
14	118	148	210	225	350	400	2,020	1,870	204	158	118	348
15	222	172	200	230	500	450	1,690	1,570	216	174	108	436
16	458	279	205	210	480	700	1,540	1,380	215	138	103	306
17	316	277	220	180	460	1,000	1,410	1,380	197	128	98	243
18	206	266	230	180	450	650	1,520	1,350	170	149	107	282
19	165	196	235	220	430	550	2,260	1,200	158	148	90	263
20	151	257	220	225	400	500	3,620	1,080	152	222	88	245
21	136	440	210	220	360	450	3,910	1,070	152	172	97	377
22	141	550	230	200	360	420	3,670	1,250	249	139	103	349
23	315	365	255	180	400	410	2,980	948	207	112	209	252
24	397	369	260	170	410	400	2,380	629	161	100	366	216
25	274	290	220	160	410	400	2,590	599	157	100	171	193
26	214	240	220	170	400	400	2,420	973	213	99	148	171
27	201	203	215	170	420	400	2,460	864	188	108	132	158
28	196	249	215	180	450	390	2,470	854	155	100	1,870	193
29	183	367	230	230	------	410	2,950	697	136	103	2,120	170
30	176	331	210	200	------	410	2,830	547	127	192	1,100	160
31	169	------	220	165	------	410	------	485	------	144	768	------
TOTAL	5,726	6,718	7,581	6,255	8,620	13,980	55,297	60,806	7,623	4,050	13,530	7,470
MEAN	185	224	245	202	308	451	1,843	1,961	254	131	436	249
MAX	458	550	347	230	500	1,000	3,910	6,670	509	225	2,120	599
MIN	99	97	200	160	145	360	420	485	127	82	88	141
(†)	400.0	373.9	300.3	233.6	163.3	35.2	192.3	429.8	426.3	435.9	426.1	413.6
MEAN ‡	184	215	216	177	280	403	1,985	1,972	251	134	445	233
CFSM ‡	.46	.54	.54	.45	.71	1.02	5.00	4.97	.63	.34	1.12	.59
IN.‡	.53	.60	.63	.51	.74	1.17	5.58	5.73	.71	.39	1.29	.66

CAL YR 1970 TOTAL 190,106 MEAN 521 MAX 5,400 MIN 53 MEAN‡ 520 CFSM‡ 1.31 IN‡ 17.79
WTR YR 1971 TOTAL 197,656 MEAN 542 MAX 6,670 MIN 82 MEAN‡ 542 CFSM‡ 1.37 IN‡ 18.54

PEAK DISCHARGE (BASE, 3,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	2115	9.23	4,890				
5-4	0630	11.96	8,080				
8-28	1900	8.53	4,160				

† Monthend contents, in millions of cubic feet, in Peacham Pond and Mollys Falls Reservoir; records furnished by Green Mountain Power Corp.

‡ Adjusted for change in contents in Peacham Pond, Mollys Falls Reservoir, and East Barre and Wrightsville Detention Reservoirs.

04287000 Dog River at Northfield Falls, Vt.

LOCATION.--Lat 44°10'58", long 72°38'27", Washington County, on right bank 1 mile downstream from Northfield Falls, and 1.2 miles downstream from Cox Branch.

DRAINAGE AREA.--76.1 sq mi.

PERIOD OF RECORD.--October 1934 to September 1971. October 1934 monthly discharge only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 603.00 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--37 years, 116 cfs (20.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,310 cfs Aug. 28 (gage height, 6.46 ft), from rating curve extended above 1,500 cfs as explained below; minimum, 9.4 cfs July 13.

Period of record: Maximum discharge, 9,750 cfs Sept. 21, 1938 (gage height, 11.53 ft), from rating curve extended above 1,500 cfs on basis of computation of flow over dam at gage height 8.49 ft and slope-area measurements at gage heights 8.96 and 11.53 ft; minimum, 4.3 cfs Aug. 31, Sept. 7, 1942.

REMARKS.--Records good except those for winter period, which are fair. Infrequent diurnal fluctuation at low flow by powerplant above station; regulation much greater prior to 1955.

REVISIONS (WATER YEARS).--WSP 1237: 1935-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	66	40	31	89	94	745	89	18	23	84
2	15	20	63	39	31	91	107	712	82	27	40	70
3	17	20	62	39	30	82	242	1,340	79	25	240	61
4	21	18	70	40	30	75	274	1,720	78	17	205	56
5	19	18	58	44	29	76	213	949	69	15	82	49
6	17	18	60	47	29	83	214	813	63	14	53	63
7	16	17	47	46	28	78	224	698	58	14	39	62
8	14	17	39	42	28	81	194	583	57	14	30	51
9	14	16	46	43	35	75	194	543	69	12	24	44
10	13	17	47	47	39	76	245	457	61	12	21	38
11	12	21	43	45	38	73	311	410	54	11	20	35
12	13	25	43	42	37	72	486	344	48	9.7	19	57
13	14	24	43	41	42	72	645	302	43	9.7	16	79
14	15	23	43	42	70	73	645	255	39	20	15	73
15	18	28	37	41	115	83	425	206	35	23	14	84
16	26	40	36	38	105	185	360	179	35	16	14	69
17	31	37	39	42	88	197	329	194	33	15	12	58
18	25	33	43	46	89	140	357	172	31	16	11	60
19	20	42	42	45	82	125	625	146	27	17	11	55
20	18	74	42	40	78	122	1,090	130	25	44	11	52
21	16	170	39	38	76	111	1,040	139	25	23	19	62
22	17	102	38	36	73	105	874	185	38	16	15	56
23	73	88	45	34	72	98	600	143	40	13	38	49
24	74	74	42	32	72	98	539	125	30	12	35	44
25	51	62	43	31	69	94	640	120	25	13	21	38
26	39	51	43	31	79	89	575	169	36	12	16	34
27	34	52	43	30	79	91	635	153	33	14	16	33
28	30	56	42	30	96	93	686	137	27	14	948	36
29	27	71	41	32	------	96	877	122	24	15	344	34
30	24	68	40	31	------	95	688	109	20	27	149	31
31	22	------	40	29	------	93	------	100	------	22	110	------
TOTAL	761	1,323	1,425	1,203	1,670	3,011	14,428	12,400	1,373	530.4	2,611	1,617
MEAN	24.5	44.1	46.0	38.8	59.6	97.1	481	400	45.8	17.1	84.2	53.9
MAX	74	170	70	47	115	197	1,090	1,720	89	44	948	84
MIN	12	16	36	29	28	72	94	100	20	9.7	11	31
CFSM	.32	.58	.60	.51	.78	1.28	6.32	5.26	.60	.22	1.11	.71
IN.	.37	.65	.70	.59	.82	1.47	7.05	6.06	.67	.26	1.28	.79

CAL YR 1970 TOTAL 40,499.4 MEAN 111 MAX 1,470 MIN 6.9 CFSM 1.46 IN 19.80
WTR YR 1971 TOTAL 42,352.4 MEAN 116 MAX 1,720 MIN 9.7 CFSM 1.52 IN 20.70

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	1930	4.81	1,750	8-28	1515	6.46	3,310
5-4	0445	5.86	2,660				

04287300 Sonny Brook near Montpelier, Vt.

LOCATION.--Lat 44°16'08", long 72°37'37", Washington County, on left bank 20 ft upstream from culvert on U.S. Highway 2, 1,000 ft upstream from mouth, and 2.5 miles west of Montpelier.

DRAINAGE AREA.--2.31 sq mi.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 510 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 2.88 cfs (16.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 136 cfs Aug. 28 (gage height, 5.19 ft); minimum not determined; minimum daily, 0.07 cfs July 11, 12.

Period of record: Maximum discharge, 322 cfs May 20, 1969 (gage height, 7.23 ft), from rating curve extended above 55 cfs on basis of computation of peak flow through culvert; minimum, 0.01 cfs Aug. 19-22, 1964.

REMARKS.--Records fair. Recording rain gage at station since April 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.14	1.1	.87	.68	2.7	3.7	15	1.6	.18	.18	1.7
2	.20	.13	.99	.84	.70	2.5	4.5	15	1.4	.28	.29	1.1
3	.20	.12	.99	.85	.68	2.4	13	36	1.3	.18	4.3	.88
4	.25	.12	1.2	.90	.66	2.5	11	61	1.1	.14	2.6	.71
5	.25	.11	.93	.95	.65	2.7	9.6	19	.89	.12	1.0	.50
6	.25	.11	.93	1.0	.64	3.1	9.5	13	.69	.11	.66	.45
7	.23	.10	.82	1.0	.64	3.0	9.8	10	.56	.10	.46	.45
8	.15	.10	.70	.90	.70	3.3	7.6	8.4	.64	.10	.36	.25
9	.12	.10	.85	.90	.80	3.0	8.6	7.5	.69	.09	.28	.23
10	.12	.10	.85	1.0	.90	2.9	12	6.0	.56	.08	.25	.20
11	.12	.12	.80	.97	.90	3.0	19	5.2	.49	.07	.45	.17
12	.12	.20	.71	.94	1.0	2.9	33	4.8	.44	.07	.35	1.9
13	.12	.17	.66	.90	1.4	3.0	33	5.1	.38	.10	.27	.88
14	.15	.15	.64	.93	2.0	3.1	27	5.0	.33	.31	.20	1.3
15	.32	.32	.62	.90	4.5	4.0	15	4.1	.29	.22	.17	1.6
16	.71	.51	.62	.86	3.5	9.0	12	3.5	.26	.16	.15	.83
17	.35	.39	.70	.90	2.7	7.6	13	3.4	.25	.13	.14	.54
18	.25	.35	.85	.97	2.8	6.2	15	3.0	.23	.23	.12	.71
19	.20	.32	.84	.94	2.7	5.2	40	2.6	.22	.17	.10	.45
20	.17	.51	.82	.85	2.6	4.7	52	2.5	.20	.36	.08	.59
21	.17	1.5	.80	.80	2.5	4.5	40	4.3	.22	.23	.17	.71
22	.20	1.3	.80	.76	2.3	4.3	30	4.4	.35	.14	.15	.54
23	1.0	1.2	1.0	.72	2.3	4.1	19	2.9	.25	.10	1.3	.45
24	.43	1.0	.97	.69	2.4	3.9	18	2.9	.20	.10	.41	.36
25	.35	.93	.92	.67	2.4	3.8	21	4.7	.22	.12	.20	.28
26	.25	.60	.90	.66	2.3	3.7	18	6.6	.33	.10	.15	.25
27	.20	.60	.90	.66	2.7	3.6	18	5.0	.23	.13	.17	.20
28	.20	.93	.90	.66	3.1	3.5	18	3.9	.18	.13	34	.20
29	.18	1.4	.89	.66	------	3.5	20	2.9	.15	.12	10	.20
30	.16	1.2	.89	.66	------	3.5	17	2.4	.13	.17	4.3	.20
31	.15	------	.89	.66	------	3.5	------	2.0	------	.20	2.8	------
TOTAL	7.77	14.83	26.48	25.57	51.15	118.7	567.3	272.1	14.78	4.74	66.06	18.83
MEAN	.25	.49	.85	.84	1.83	3.83	18.9	8.78	.49	.15	2.13	.63
MAX	1.0	1.5	1.2	1.0	4.5	9.0	52	61	1.6	.36	34	1.9
MIN	.12	.10	.62	.66	.64	2.4	3.7	2.0	.13	.07	.08	.17
CFSM	.11	.21	.37	.36	.79	1.66	8.18	3.80	.21	.06	.92	.27
IN.	.13	.24	.43	.42	.82	1.91	9.14	4.38	.24	.08	1.06	.30

CAL YR 1970 TOTAL 1,061.62 MEAN 2.91 MAX 54 MIN .02 CFSM 1.26 IN 17.10
WTR YR 1971 TOTAL 1,188.71 MEAN 3.26 MAX 61 MIN .07 CFSM 1.41 IN 19.14

PEAK DISCHARGE (BASE, 55 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-12	1800	3.93	61				
4-20	1515	4.77	108				
5-4	0230	5.13	132				
8-28	1300	5.19	136				

NOTE.--Indefinite stage-discharge relation May 27 to Aug. 19.

04288000 Mad River near Moretown, Vt.

LOCATION.--Lat 44°16'42", long 72°44'37", Washington County, on left bank at downstream side of highway bridge, 2.4 miles downstream from Moretown, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--139 sq mi.

PERIOD OF RECORD.--July to November 1910, October 1928 to current year. October 1928 monthly discharge only, published in WSP 1307.

GAGE.--Water-stage recorder. Concrete control since Oct. 13, 1933. Datum of gage is 543.93 ft above mean sea level (levels by Vermont Department of Highways). July 6 to Nov. 4, 1910, nonrecording gage at same site at different datum. Nov. 20, 1928, to Sept. 27, 1930, nonrecording gage at same site at present datum.

AVERAGE DISCHARGE.--43 years (1928-71), 244 cfs (23.84 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,270 cfs Aug. 28 (gage height, 11.04 ft), from rating curve extended above 2,100 cfs as explained below; minimum, 22 cfs July 12, 13; minimum daily, 23 cfs July 12, 13.

Period of record: Maximum discharge, 18,400 cfs Sept. 22, 1938 (gage height, 16.34 ft, from floodmarks), from rating curve extended above 2,700 cfs on basis of computations of flow over dam at gage heights 9.98, 11.51, 16.34, and 19.4 ft; minimum, 1.4 cfs Oct. 1, 1930.

Maximum discharge since at least 1830, 23,000 cfs Nov. 3, 1927 (gage height, 19.4 ft, from floodmarks), by computation of peak flow over dam.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow; much greater regulation prior to 1958. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 744: Drainage area. WSP 854: 1934(M). WSP 1114: 1929, 1930(M), 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	76	199	78	58	160	180	1,260	190	52	59	212
2	57	72	182	78	60	140	220	1,300	161	117	62	156
3	64	68	171	78	58	130	600	2,360	159	57	1,060	127
4	84	65	185	78	58	140	520	2,810	143	44	588	108
5	68	64	155	84	56	150	410	1,860	121	38	210	93
6	60	65	150	90	55	160	410	1,600	107	35	123	399
7	55	63	110	90	54	155	434	1,510	98	33	89	209
8	49	63	92	80	56	165	377	1,300	110	30	70	138
9	47	59	115	82	66	155	369	1,420	123	28	58	108
10	44	57	120	92	74	150	516	1,280	88	27	51	90
11	42	73	110	88	74	150	607	1,350	78	24	93	80
12	44	85	100	82	76	150	951	1,190	72	23	80	183
13	49	74	90	78	90	145	1,250	1,090	67	23	54	231
14	73	70	83	80	140	150	1,290	697	61	93	45	252
15	184	96	78	78	260	190	779	566	61	65	42	246
16	284	134	74	76	200	450	635	589	62	42	41	171
17	144	108	84	80	160	400	566	647	55	39	38	127
18	107	92	88	84	165	270	636	586	50	75	35	130
19	92	109	87	80	160	240	1,150	578	46	47	32	115
20	80	196	84	77	150	230	1,760	540	43	95	31	134
21	73	631	80	72	145	210	1,810	511	48	54	45	182
22	82	349	74	68	140	200	1,520	520	92	41	38	141
23	585	279	92	64	140	190	988	366	55	34	194	108
24	346	215	85	62	145	185	822	294	45	31	126	97
25	211	155	82	60	145	180	880	284	46	38	67	84
26	155	135	82	60	140	175	821	547	102	35	53	77
27	130	136	82	58	150	180	896	493	60	46	51	71
28	109	169	80	58	180	180	969	390	48	46	3,330	69
29	96	255	80	61	------	180	1,300	314	43	35	1,190	68
30	86	217	80	58	------	180	1,100	262	39	47	469	65
31	80	------	78	56	------	180	------	227	------	58	315	------
TOTAL	3,644	4,230	3,252	2,310	3,255	5,910	24,766	28,741	2,473	1,452	8,739	4,271
MEAN	118	141	105	74.5	116	191	826	927	82.4	46.8	282	142
MAX	585	631	199	92	260	450	1,810	2,810	190	117	3,330	399
MIN	42	57	74	56	54	130	180	227	39	23	31	65
CFSM	.85	1.01	.76	.54	.83	1.37	5.94	6.67	.59	.34	2.03	1.02
IN.	.98	1.13	.87	.62	.87	1.58	6.63	7.69	.66	.39	2.34	1.14

CAL YR 1970 TOTAL 86,894 MEAN 238 MAX 3,120 MIN 13 CFSM 1.71 IN 23.26
WTR YR 1971 TOTAL 93,043 MEAN 255 MAX 3,330 MIN 23 CFSM 1.83 IN 24.90

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	0315	7.71	4,230				
8-3	1815	7.41	3,840				
8-28	1745	11.04	9,270				

04288500 Waterbury Reservoir near Waterbury, Vt.

LOCATION.--Lat 44°22'54", long 72°46'13", Washington County, at dam on Little River, 2.7 miles upstream from mouth and 3.5 miles north of Waterbury.

DRAINAGE AREA.--109 sq mi.

PERIOD OF RECORD.--September 1937 to current year. September 1937 to August 1938 monthend contents only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 10, 1938, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum elevation, 594.23 ft May 11, 12; minimum, 540.32 ft Apr. 11.
Period of record: Maximum elevation, 613.45 ft May 4, 1940; minimum observed, 501.3 ft Oct. 16, 1938.

REMARKS.--Reservoir is formed by earthfill dam completed by Corps of Engineers during summer of 1937 for flood control and storage of water for power. Usable capacity for storage of water for power, 1,582,700,000 cu ft between elevations 500.0 and 592.0 ft (sill of taintor gate) above mean sea level; for flood control, 1,229,600,000 cu ft between elevations 592.0 and 617.5 ft (crest of spillway) above mean sea level; total usable capacity, 2,812,300,000 cu ft.

Capacity table (elevation, in feet, and contents, in millions of cubic feet)

540.0	302.7	580.0	1,168.5
550.0	461.7	590.0	1,505.0
560.0	658.8	600.0	1,913.4
570.0	891.9		

ELEVATION, IN FEET, AT 2400, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590.13	589.52	590.13	586.58	578.85	573.14	546.82	574.39	590.70	590.02	590.30	590.79
2	589.78	589.51	590.20	586.80	578.47	572.75	545.10	575.99	590.41	589.86	590.13	590.30
3	590.03	589.33	590.30	586.79	577.82	572.20	545.74	580.45	590.29	589.92	590.49	589.80
4	590.32	589.15	590.02	586.61	577.44	572.10	546.69	585.52	590.03	590.00	589.65	589.91
5	590.51	588.92	590.00	586.68	577.20	571.80	545.58	588.48	590.14	590.05	588.74	590.03
6	590.45	588.53	590.17	586.77	577.38	571.16	544.50	590.29	590.35	589.78	588.31	590.13
7	590.03	588.69	589.59	586.80	577.20	569.74	543.46	592.12	589.98	589.63	588.39	589.60
8	589.54	588.81	589.05	586.66	576.81	568.60	542.07	593.14	589.81	589.52	588.48	589.28
9	589.03	588.62	588.74	586.79	576.51	567.55	540.84	593.63	589.88	589.44	588.52	589.05
10	589.15	588.41	588.55	586.74	576.13	566.39	540.56	594.04	589.91	589.48	588.47	588.91
11	589.30	588.32	588.43	586.24	575.77	565.68	541.10	594.23	589.81	589.50	588.58	589.00
12	589.43	588.26	588.37	585.94	575.81	564.58	543.43	593.97	589.99	589.37	588.60	589.28
13	589.67	588.11	588.44	585.45	576.21	563.48	546.77	593.59	590.15	589.27	588.65	588.90
14	589.99	588.36	588.25	585.04	577.24	562.37	549.58	592.90	590.01	589.31	588.69	588.58
15	592.09	588.85	587.99	584.92	577.58	562.12	550.10	592.49	589.93	589.30	588.71	588.36
16	591.75	589.08	587.68	584.93	577.92	563.07	550.00	592.54	589.83	589.39	588.75	588.33
17	590.96	589.04	587.73	584.78	577.73	562.50	549.78	592.58	589.73	589.59	588.61	588.25
18	590.12	589.16	587.74	584.01	577.60	562.56	549.93	592.55	589.72	589.80	588.66	588.59
19	589.94	589.33	587.69	583.15	577.41	563.39	552.62	592.60	589.81	589.76	588.69	588.80
20	589.73	589.56	587.75	582.28	577.41	562.80	557.12	592.51	589.85	589.73	588.79	589.19
21	589.77	590.43	587.15	581.67	577.22	562.62	561.30	592.32	589.92	589.80	588.86	590.04
22	589.83	590.88	586.76	581.43	576.83	561.70	564.32	592.00	589.92	589.75	588.90	590.06
23	590.05	590.32	586.54	581.51	576.65	560.19	565.38	591.29	589.90	589.80	589.40	589.89
24	589.68	590.23	586.84	581.24	576.14	558.64	565.83	590.80	589.79	589.88	589.59	589.92
25	590.10	590.20	586.90	580.94	575.49	557.02	566.44	590.56	589.97	589.92	589.66	590.15
26	590.06	590.30	587.02	580.81	575.22	555.33	566.86	590.29	590.24	589.81	589.71	590.28
27	589.98	590.32	587.04	580.36	574.53	553.93	567.48	589.94	590.37	589.92	589.79	589.99
28	589.83	590.46	586.96	579.78	573.64	553.93	568.41	589.60	590.28	589.80	592.63	589.71
29	589.68	590.39	586.84	579.54	------	552.25	570.60	590.19	590.18	589.76	593.30	589.67
30	589.23	590.19	586.50	579.75	------	550.56	572.25	590.69	590.02	589.71	592.40	589.62
31	589.41	------	586.37	579.46	------	548.72	------	590.93	------	590.12	591.47	------
MEAN	589.99	589.38	588.12	583.89	576.81	562.99	553.35	590.23	590.03	589.71	589.47	589.68
MAX	592.09	590.88	590.30	586.80	578.85	573.14	572.25	594.23	590.70	590.12	593.30	590.79
MIN	589.03	588.11	586.37	579.46	573.64	548.72	540.56	574.39	589.72	589.27	588.31	588.25
(†)	1,484.0	1,512.3	1,376.4	1,152.8	987.7	440.0	951.0	1,541.1	1,505.8	1,509.6	1,562.0	1,491.5
(‡)	-13.0	+10.9	-50.7	-83.5	-68.2	-204	+197	+220	-13.6	+1.42	+19.6	-27.2

CAL YR 1970 MEAN 582.93 MAX 593.88 MIN 524.10 (‡) -1.25
WTR YR 1971 MEAN 582.86 MAX 594.23 MIN 540.56 (‡) -.87

† Contents, in millions of cubic feet, at end of month.
‡ Change in contents, in cubic feet per second.

04289000 Little River near Waterbury, Vt.

LOCATION.--Lat 44°22'12", long 72°46'11", Washington County, on right bank 1 mile downstream from Waterbury Reservoir, 1.7 miles upstream from mouth, and 2.5 miles north of Waterbury.

DRAINAGE AREA.--111 sq mi.

PERIOD OF RECORD.--July to October 1910 (gage heights only), October 1935 to current year. October, November 1935 monthly discharge only, published in WSP 1307. Prior to October 1962, published as Waterbury River near Waterbury.

GAGE.--Water-stage recorder. Concrete control since Dec. 8, 1937. Datum of gage is 428.00 ft above mean sea level (levels by Corps of Engineers). July 7 to Oct. 31, 1910, nonrecording gage at site 2 miles upstream at different datum.

AVERAGE DISCHARGE.--36 years, 226 cfs (27.65 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,360 cfs May 12 (gage height, 9.22 ft); minimum daily, 9.9 cfs Aug. 16.
Period of record: Maximum discharge, 6,520 cfs Mar. 18, 1936 (gage height, 19.38 ft); minimum daily, 0.6 cfs several times during summers of 1938-39, 1941, and 1944. Maximum discharge since construction of Waterbury Reservoir in 1937, 4,080 cfs Dec. 9, 1937 (gage height, 14.88 ft).

REMARKS.--Records good. Flow completely regulated by Waterbury Reservoir (see preceding page).

REVISIONS (WATER YEARS).--WSP 824: 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	34	221	14	271	170	496	579	281	146	11	358
2	253	97	178	14	206	128	493	580	269	158	127	289
3	11	154	167	100	270	196	402	600	274	13	301	288
4	11	149	354	164	171	145	253	626	279	12	575	12
5	79	180	155	101	155	183	492	620	77	12	489	11
6	140	229	94	121	12	285	493	613	12	149	239	11
7	290	13	378	122	113	540	490	621	290	105	11	283
8	295	12	345	153	194	466	487	757	273	82	10	199
9	299	148	274	46	167	371	484	1,010	179	73	10	150
10	11	146	215	119	176	402	486	1,110	105	12	57	97
11	11	66	179	307	156	304	490	1,270	141	12	11	11
12	11	139	123	217	52	366	500	1,270	12	82	11	12
13	12	163	102	277	12	378	515	1,210	11	82	10	141
14	15	12	206	249	15	378	484	909	117	81	10	161
15	48	13	216	141	13	284	505	708	106	81	10	257
16	553	104	223	82	13	320	503	660	105	11	9.9	102
17	568	153	135	119	13	523	502	688	109	11	77	102
18	540	62	116	361	89	247	506	677	74	11	11	13
19	210	75	133	401	183	14	524	680	12	79	10	11
20	205	126	91	392	125	316	548	686	12	82	10	175
21	81	535	355	332	165	251	555	660	113	11	10	155
22	119	183	269	162	214	354	558	622	106	60	10	199
23	402	503	197	52	182	519	556	594	82	11	79	195
24	463	254	15	173	256	518	557	558	116	10	11	137
25	13	178	86	176	64	518	560	406	13	10	11	12
26	167	85	56	146	80	516	564	553	12	84	13	12
27	167	126	105	238	218	470	567	591	13	62	252	198
28	175	209	127	289	396	108	570	536	96	60	480	175
29	185	328	149	158	------	503	559	14	88	58	536	107
30	291	333	241	12	------	505	571	12	116	64	661	132
31	13	------	141	170	------	500	------	90	------	14	591	------
TOTAL	5,859	4,809	5,646	5,408	3,980	10,777	15,270	20,510	3,493	1,739	4,653.9	4,005
MEAN	189	160	182	174	142	348	509	662	116	56.1	150	134
MAX	568	535	378	401	396	540	571	1,270	281	158	661	358
MIN	11	12	15	12	12	14	253	12	11	10	9.9	11
MEAN†	176	171	131	91.0	73.9	143	706	882	103	57.5	170	106
CFSM†	1.59	1.54	1.18	.82	.67	1.29	6.36	7.95	.93	.52	1.53	.95
IN.†	1.83	1.72	1.37	.95	.69	1.49	7.10	9.16	1.03	.60	1.76	1.07

CAL YR 1970 TOTAL 80,996.7 MEAN 222 MAX 1,110 MIN 8.4 MEAN† 221 CFSM† 1.99 IN† 26.99
WTR YR 1971 TOTAL 86,148.9 MEAN 236 MAX 1,270 MIN 9.9 MEAN† 235 CFSM† 2.12 IN† 28.77

† Adjusted for change in contents in Waterbury Reservoir.

04290500 Winooski River near Essex Junction, Vt.

LOCATION.--Lat 44°28'44", long 73°08'21", Chittenden County, on right bank 0.5 mile downstream from Muddy Brook and 2 miles southwest of Essex Junction.

DRAINAGE AREA.--1,044 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 185 ft (from topographic map); prior to Oct. 1, 1964, datum was 1.00 ft higher.

AVERAGE DISCHARGE.--43 years, 1,626 cfs (21.15 inches per year), adjusted for storage since October 1938.

EXTREMES.--Current year: Maximum discharge, 20,700 cfs May 4 (gage height, 13.62 ft); minimum daily, 128 cfs Aug. 22.

Period of record: Maximum discharge, 45,300 cfs Mar. 19, 1936 (gage height, 24.54 ft, present datum), from rating curve extended above 27,000 cfs on basis of computations of flow over dam at gage heights 19.72, 24.54, and 51.4 ft and slope-area measurement at gage height 51.4 ft (all at present datum); minimum daily, 24 cfs Sept. 7, 1968.

Maximum discharge since at least 1830, 113,000 cfs Nov. 4, 1927 (gage height, 51.4 ft, present datum, from floodmarks), from rating curve extended above 27,000 cfs by method explained above.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplants above station, by Peacham Pond and Mollys Falls Reservoir (combined usable capacity, 492,000,000 cu ft), by Waterbury Reservoir since 1937 (see p. 238), and by East Barre and Wrightsville Detention Reservoirs since 1935 (see p. 233). See table with station 04286000 for monthend contents in Peacham Pond and Mollys Falls Reservoir.

REVISIONS (WATER YEARS).--WSP 714: 1930(M). WSP 894: Drainage area. WSP 1307: 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	667	304	1,130	680	500	1,600	1,450	7,930	1,280	445	301	2,020
2	563	608	1,130	600	520	1,300	1,720	7,790	1,260	645	446	1,170
3	371	423	1,040	640	550	1,100	3,600	9,960	1,050	624	1,200	1,030
4	265	457	1,150	680	570	1,100	4,380	17,600	1,030	311	5,460	602
5	476	498	1,000	640	560	1,150	3,520	14,200	912	150	2,770	534
6	546	562	800	800	540	1,100	3,230	9,780	867	457	1,490	569
7	741	437	850	750	490	1,500	3,330	9,000	784	288	594	1,000
8	515	243	860	700	450	1,350	2,950	8,370	939	385	396	650
9	829	375	750	670	600	1,150	2,650	8,320	1,150	284	385	571
10	612	471	900	640	560	1,100	3,580	7,650	1,000	216	355	524
11	260	403	850	620	610	800	3,750	7,830	784	135	342	360
12	408	620	670	720	600	1,200	5,520	7,430	575	250	353	624
13	340	586	760	660	560	1,300	7,990	6,900	495	262	367	957
14	395	526	740	700	650	900	8,350	5,520	568	460	302	1,140
15	683	540	780	670	1,150	1,050	5,990	4,430	568	420	237	1,110
16	1,770	822	680	550	1,300	3,500	5,030	3,930	575	422	245	1,170
17	1,610	851	700	580	1,250	4,000	4,170	3,980	508	364	240	638
18	1,260	691	680	580	1,150	2,500	4,530	3,930	534	365	248	568
19	994	704	650	560	1,050	1,800	5,150	3,660	375	407	238	610
20	544	736	720	680	1,200	1,600	9,150	3,430	216	465	236	752
21	971	1,760	740	640	940	1,700	11,600	3,120	463	448	159	1,210
22	512	2,210	770	600	960	1,500	11,000	3,390	589	352	128	1,020
23	879	1,920	790	560	1,000	1,650	8,650	2,840	547	308	1,030	808
24	2,110	1,400	810	54C	1,050	1,600	6,550	2,290	469	198	815	792
25	1,450	949	620	520	1,050	1,600	6,900	1,850	488	236	392	514
26	714	844	760	580	1,000	1,450	6,550	2,560	375	265	252	385
27	671	749	640	520	1,300	1,400	6,650	3,000	451	294	799	680
28	630	1,040	720	520	1,700	1,150	6,800	2,690	469	269	3,430	582
29	642	1,520	700	700	------	1,300	7,890	2,080	415	388	11,600	514
30	721	1,360	720	620	------	1,450	7,890	1,570	375	336	4,050	589
31	613	------	700	550	------	1,450	------	1,300	------	509	2,580	------
TOTAL	23,762	24,609	24,810	19,470	23,860	47,350	170,520	178,330	20,111	10,958	41,440	23,693
MEAN	767	820	800	628	852	1,527	5,684	5,753	670	353	1,337	790
MAX	2,110	2,210	1,150	800	1,700	4,000	11,600	17,600	1,280	645	11,600	2,020
MIN	260	243	620	520	450	800	1,450	1,300	216	135	128	360
MEAN†	753	822	721	519	756	1,274	6,022	5,984	654	358	1,365	747
CFSM†	.72	.79	.69	.50	.72	1.22	5.77	5.73	.63	.34	1.31	.72
IN.†	.83	.88	.80	.57	.75	1.41	6.44	6.61	.70	.40	1.51	.80

CAL YR 1970 TOTAL 568,402 MEAN 1,557 MAX 17,800 MIN 43 MEAN† 1,555 CFSM† 1.49 IN† 20.23
WTR YR 1971 TOTAL 608,913 MEAN 1,668 MAX 17,600 MIN 128 MEAN† 1,668 CFSM† 1.60 IN† 21.69

PEAK DISCHARGE (BASE, 12,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-21	0800	9.59	12,900				
5-4	1845	13.62	20,700				
8-29	0415	12.04	17,600				

† Adjusted for change in contents in Peacham Pond, Mollys Falls Reservoir, East Barre and Wrightsville Detention Reservoirs, and Waterbury Reservoir. Records of monthend contents in Peacham Pond and Mollys Falls Reservoir furnished by Green Mountain Power Corp.

04292000 Lamoille River at Johnson, Vt.

LOCATION.--Lat 44°37'22", long 72°40'50", Lamoille County, on right bank above falls, 0.7 mile upstream from bridge in Johnson, and 0.8 mile upstream from Gihon River.

DRAINAGE AREA.--310 sq mi.

PERIOD OF RECORD.--July to December 1910, June 1911 to December 1913 (monthly discharge only, January to March 1912, February 1913), September 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 495 ft (from topographic map). Prior to Dec. 31, 1913, nonrecording gage at bridge 0.7 mile downstream at different datum.

AVERAGE DISCHARGE.--45 years (1911-13, 1928-71), 514 cfs (22.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,920 cfs May 4 (gage height, 12.05 ft, from peak-stage indicator); minimum, 120 cfs Aug. 26, 27; minimum daily, 123 cfs Aug. 27.

Period of record: Maximum discharge, 13,000 cfs Mar. 18, 1936 (gage height, 16.48 ft), from rating curve extended above 8,500 cfs on basis of computation of peak flow over dam; minimum, 11 cfs Sept. 2, 1935; minimum daily, 16 cfs Oct. 26, 1947.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Some regulation by powerplant above station.

REVISIONS (WATER YEARS).--WSP 894: Drainage area. WSP 1114: 1933, 1934(M). WSP 1237: 1912(M), 1930, 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	144	513	370	330	550	316	2,900	330	383	221	369
2	191	142	327	340	300	460	326	2,700	310	964	208	280
3	150	185	363	320	280	370	755	2,800	285	533	244	203
4	167	188	435	330	290	400	1,160	4,700	248	289	1,310	142
5	243	150	285	340	310	380	849	5,500	245	138	588	144
6	233	164	243	360	330	350	758	3,500	243	137	338	143
7	194	191	282	380	310	370	749	2,900	217	136	241	139
8	133	144	323	360	300	390	635	2,700	246	139	221	138
9	139	158	403	340	320	420	629	2,400	685	144	177	146
10	125	167	343	370	310	380	770	2,300	434	146	133	179
11	125	139	308	420	300	360	892	2,200	311	150	133	199
12	125	243	282	370	340	370	1,450	2,000	235	151	134	207
13	133	229	250	320	370	370	2,010	1,800	230	152	136	479
14	144	200	304	350	430	390	2,170	1,500	205	215	137	422
15	690	200	327	380	650	380	1,430	1,100	166	266	136	500
16	1,100	403	270	350	560	680	1,180	950	149	247	136	404
17	522	359	340	330	500	750	1,010	1,000	161	252	136	275
18	359	274	380	320	450	600	1,170	1,000	195	270	135	200
19	285	207	320	320	390	520	1,830	920	214	299	134	336
20	147	347	320	300	330	450	3,570	830	193	294	140	428
21	156	594	380	280	360	400	3,950	760	181	237	158	681
22	194	640	340	300	350	380	3,310	820	184	219	223	549
23	395	407	300	290	360	390	2,430	760	197	170	568	387
24	439	399	360	310	390	350	1,660	600	193	156	854	280
25	285	292	380	330	410	285	2,080	500	189	158	353	170
26	253	204	330	320	410	342	2,000	540	399	155	138	190
27	236	216	310	320	380	341	1,900	600	329	166	123	205
28	220	312	340	300	440	334	2,000	520	253	186	2,340	181
29	188	626	330	290	------	346	2,400	450	229	195	3,290	175
30	173	554	340	320	------	383	2,800	400	205	195	975	192
31	139	------	330	340	------	344	------	370	------	253	580	------
TOTAL	8,112	8,478	10,358	10,370	10,500	12,335	48,189	52,020	7,661	7,395	14,640	8,343
MEAN	262	283	334	335	375	414	1,606	1,678	255	239	472	278
MAX	1,100	640	513	420	650	750	3,950	5,500	685	964	3,290	681
MIN	125	139	243	280	280	285	316	370	149	136	123	138
CFSM	.85	.91	1.08	1.08	1.21	1.34	5.18	5.41	.82	.77	1.52	.90
IN.	.97	1.02	1.24	1.24	1.26	1.54	5.78	6.24	.92	.89	1.76	1.00

CAL YR 1970 TOTAL 169,231 MEAN 464 MAX 6,100 MIN 50 CFSM 1.50 IN 20.31
WTR YR 1971 TOTAL 198,901 MEAN 545 MAX 5,500 MIN 123 CFSM 1.76 IN 23.87

PEAK DISCHARGE (BASE, 5,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	-	12.05	6,920				
8-28	2200	11.69	6,520				

04292100 Stony Brook near Eden, Vt.

LOCATION.--Lat 44°41'38", long 72°35'00", Lamoille County, on right bank 20 ft downstream from bridge on State Highway 100, 500 ft upstream from mouth, and 2 miles southwest of Eden.

DRAINAGE AREA.--4.21 sq mi.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 9.50 cfs (30.64 inches per year).

EXTREMES.--Current year: Maximum discharge, 420 cfs Aug. 28 (gage height, 3.46 ft); maximum gage height, 4.71 ft Mar. 16 (backwater from ice); minimum discharge, 0.96 cfs Aug. 18-20.

Period of record: Maximum discharge, 420 cfs Aug. 28, 1971 (gage height, 3.46 ft); maximum gage height, 4.77 ft Mar. 6, 1966 (ice jam); minimum discharge, 0.40 cfs Sept. 24, 1964.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	4.6	12	4.4	3.6	6.4	6.2	71	5.0	19	5.3	3.8
2	4.9	4.5	11	4.4	3.5	5.8	6.4	56	4.8	11	5.0	2.6
3	6.8	4.2	10	4.4	3.4	5.8	20	88	12	5.5	7.6	2.2
4	8.4	4.0	9.0	4.5	3.3	5.5	16	58	8.2	4.0	7.3	1.9
5	8.3	4.0	8.5	5.5	3.3	5.5	13	93	5.5	3.3	3.8	3.5
6	6.2	3.9	8.0	6.8	4.5	5.5	11	86	5.0	2.8	2.8	5.3
7	4.8	3.9	7.6	6.3	4.5	5.5	11	86	4.5	3.0	2.2	3.0
8	4.8	3.9	7.2	6.0	4.3	5.5	10	67	28	2.2	1.7	2.2
9	4.2	3.8	7.0	5.8	5.3	5.5	10	65	15	1.9	1.6	1.7
10	3.9	3.8	7.0	5.7	4.8	5.3	13	59	8.5	1.9	1.3	1.5
11	3.8	6.8	6.8	5.6	4.8	5.3	15	50	6.4	1.6	1.3	1.4
12	3.8	6.0	6.5	5.4	4.5	5.5	22	34	5.3	1.5	1.5	3.0
13	6.5	5.4	6.2	5.3	5.0	5.8	37	30	4.8	1.6	1.1	3.3
14	10	5.4	5.9	5.2	7.0	5.5	39	23	4.0	2.1	1.2	5.5
15	19	9.0	5.7	5.1	13	6.5	25	18	3.5	3.5	1.1	5.5
16	14	14	5.4	5.0	12	12	19	16	3.3	2.2	1.1	3.0
17	9.6	9.2	5.2	4.8	10	13	18	18	2.8	13	1.1	2.0
18	7.6	7.0	5.0	4.8	8.2	11	19	15	2.4	7.9	.96	2.0
19	6.2	7.0	5.0	4.7	7.4	8.4	38	12	2.4	3.8	.96	1.9
20	5.4	11	4.9	4.7	6.4	7.6	70	11	2.2	4.8	.96	17
21	5.1	30	4.8	4.6	6.1	7.3	62	15	14	3.0	1.1	20
22	5.4	20	4.8	4.5	5.3	6.7	46	16	8.5	2.2	1.5	8.8
23	16	15	4.8	4.4	5.3	6.6	29	12	4.3	1.9	11	5.8
24	12	12	4.7	4.2	5.3	6.4	25	10	3.0	1.7	4.5	4.5
25	9.0	9.0	4.6	4.0	5.3	6.3	28	9.2	6.4	2.6	2.0	3.5
26	7.4	6.8	4.5	4.0	5.0	6.2	29	10	8.5	2.0	1.5	2.8
27	6.4	9.0	4.5	4.3	5.8	6.0	31	10	4.0	5.5	1.5	2.4
28	6.0	19	4.5	4.0	7.4	6.0	44	8.8	2.8	3.0	81	2.2
29	5.6	15	4.5	3.9	------	6.0	56	7.6	2.6	2.0	20	2.8
30	5.2	13	4.5	3.9	------	6.0	68	6.7	2.6	2.6	8.5	3.0
31	4.9	------	4.5	3.7	------	6.0	------	5.8	------	12	6.4	------
TOTAL	226.5	270.2	194.6	149.9	164.3	206.4	836.6	1,107.1	190.3	135.1	188.88	128.1
MEAN	7.32	9.01	6.28	4.84	5.87	6.66	27.9	35.7	6.34	4.36	6.09	4.27
MAX	19	30	12	6.8	13	13	70	98	28	19	81	20
MIN	3.8	3.8	4.5	3.7	3.3	5.3	6.2	5.8	2.2	1.5	.96	1.4
CFSM	1.74	2.14	1.49	1.15	1.39	1.58	6.63	8.48	1.51	1.04	1.45	1.01
IN.	2.00	2.39	1.72	1.32	1.45	1.82	7.39	9.78	1.68	1.19	1.67	1.13

CAL YR 1970 TOTAL 3,321.03 MEAN 9.10 MAX 135 MIN .53 CFSM 2.16 IN 29.34
WTR YR 1971 TOTAL 3,798.38 MEAN 10.4 MAX 98 MIN .96 CFSM 2.47 IN 33.56

PEAK DISCHARGE (BASE, 110 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	1800	3.21	120				
4-30	1830	3.19	110				
5-6	1845	3.29	178				
8-28	1430	3.46	420				

NOTE.--No gage-height record Oct. 23 to Dec. 30.

04292500 Lamoille River at East Georgia, Vt.

LOCATION.--Lat 44°40'45", long 73°04'23", Franklin County, on right bank at East Georgia, 0.5 mile upstream from railroad bridge and 1 mile downstream from Beaver Meadow Brook.

DRAINAGE AREA.--686 sq mi.

PERIOD OF RECORD.--August 1929 to current year. Prior to October 1937, published as "near Milton."

GAGE.--Water-stage recorder. Altitude of gage is 285 ft (from topographic map). Prior to Dec. 1, 1937, at site 3.5 miles downstream at different datum.

AVERAGE DISCHARGE.--42 years, 1,187 cfs (23.50 inches per year), adjusted to present drainage area.

EXTREMES.--Current year: Maximum discharge, 12,200 cfs May 5 (gage height, 9.74 ft); minimum daily, 194 cfs July 10.
Period of record: Maximum discharge, 23,200 cfs Mar. 19, 1936 (gage height, 12.52 ft, site and datum then in use), by computation of peak flow over dam; maximum gage height, 18.81 ft Apr. 3, 1959 (ice jam); minimum daily discharge, 74 cfs Sept. 26, 1964.

REMARKS.--Records good except those for winter period, periods of no gage-height record, and period of doubtful gage-height record, which are fair. Low flow regulated by powerplants above station. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WSP 894: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	724	470	1,000	760	590	860	700	6,270	760	760	530	900
2	613	457	900	720	590	830	780	5,750	711	2,290	500	750
3	617	452	950	680	540	800	2,000	6,010	654	1,120	800	620
4	880	456	1,050	720	450	780	3,500	10,000	781	672	2,500	450
5	859	500	850	740	510	760	2,900	11,100	642	475	1,800	350
6	791	398	700	900	520	750	2,400	7,590	545	313	900	370
7	675	446	840	840	530	750	2,100	6,290	540	328	550	370
8	498	444	700	800	540	840	1,900	5,880	746	331	450	343
9	448	382	750	780	500	820	1,800	5,240	1,310	289	400	341
10	383	456	800	760	580	800	2,600	4,930	1,030	194	330	353
11	377	392	820	780	590	760	2,920	4,710	725	276	300	351
12	375	505	820	800	560	720	4,050	4,370	642	273	280	441
13	442	553	720	720	650	760	5,860	4,000	500	274	260	425
14	669	606	760	660	800	760	6,280	3,140	450	350	240	699
15	1,120	730	760	680	1,000	900	4,300	2,290	420	598	230	748
16	2,620	886	700	720	1,100	1,500	3,220	2,040	359	491	210	753
17	1,610	925	660	660	900	1,400	2,560	2,180	310	450	240	631
18	1,060	856	780	640	820	1,200	2,880	2,170	317	600	230	530
19	858	743	800	600	760	1,100	3,400	1,940	331	900	240	368
20	708	735	820	550	680	1,000	6,490	1,780	331	720	220	625
21	577	1,100	800	550	660	940	8,310	1,650	490	620	250	1,290
22	522	2,000	750	560	640	880	8,490	1,770	660	480	350	1,320
23	1,150	1,500	760	580	620	840	6,890	1,640	545	410	580	850
24	1,640	1,200	800	560	640	800	4,350	1,290	351	360	2,000	695
25	1,210	950	800	600	700	740	4,240	1,120	367	330	1,000	595
26	913	820	700	640	680	720	4,320	1,200	624	320	500	372
27	755	720	800	660	750	720	4,290	1,300	732	320	400	400
28	730	700	700	670	860	720	4,230	1,150	582	400	1,000	407
29	606	1,300	780	600	------	740	5,280	1,000	411	450	7,000	399
30	573	1,150	800	590	------	730	5,920	880	375	450	2,200	344
31	554	------	820	580	------	720	------	820	------	600	1,300	------
TOTAL	25,557	22,832	24,690	21,100	18,760	26,640	118,960	111,500	17,241	16,444	27,790	17,090
MEAN	824	761	796	681	670	859	3,965	3,597	575	530	896	570
MAX	2,620	2,000	1,050	900	1,100	1,500	8,490	11,100	1,310	2,290	7,000	1,320
MIN	375	382	660	550	450	720	700	820	310	194	210	341
CFSM	1.20	1.11	1.16	.59	.98	1.25	5.78	5.24	.84	.77	1.31	.83
IN.	1.39	1.24	1.34	1.14	1.02	1.44	6.45	6.05	.93	.89	1.51	.93

CAL YR 1970 TOTAL 406,694 MEAN 1,114 MAX 11,000 MIN 110 CFSM 1.62 IN 22.05
WTR YR 1971 TOTAL 448,604 MEAN 1,229 MAX 11,100 MIN 194 CFSM 1.79 IN 24.33

PEAK DISCHARGE (BASE, 10,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-5	0330	9.74	12,200				
8-29	-	-	†11,500				

† About.

NOTE.--No gage-height record Nov. 21 to Dec. 29, July 17 to Sept. 7. Doubtful gage-height record June 2 to July 11.

04292700 Stone Bridge Brook near Georgia Plains, Vt.

LOCATION.--Lat 44°42'13", long 73°10'54", Franklin County, on left bank 20 ft upstream from culvert on gravel road and 1.5 miles southwest of Georgia Plains.

DRAINAGE AREA.--8.45 sq mi.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 150 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 6.66 cfs (10.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 131 cfs Apr. 13 (gage height, 4.69 ft); maximum gage height, 5.13 ft Mar. 16 (backwater from ice); minimum discharge, 0.75 cfs Aug. 19, 20.

Period of record: Maximum discharge, 264 cfs May 20, 1969 (gage height, 5.54 ft), from rating curve extended above 75 cfs; maximum gage height, 6.01 ft Jan. 26, 1964 (backwater from ice); minimum discharge, 0.22 cfs Aug. 5, 1965.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Recording rain gage at station since July 1964 (no winter records).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.3	9.5	5.8	4.0	9.8	11	22	4.3	4.0	12	5.9
2	2.8	3.3	7.8	5.8	3.9	9.6	22	15	3.2	11	5.5	3.5
3	3.4	2.7	6.5	5.8	3.8	9.4	48	20	2.9	8.0	3.7	2.4
4	4.2	2.9	5.5	5.6	3.7	9.2	62	73	2.8	4.5	3.1	2.2
5	3.5	2.9	7.0	6.0	3.8	8.8	54	65	2.6	2.6	2.2	2.0
6	3.0	3.1	6.5	6.4	3.8	9.6	50	27	2.4	1.8	1.5	1.9
7	2.6	3.0	6.2	6.2	3.6	9.4	46	16	2.9	1.5	1.4	1.7
8	2.4	2.7	6.0	5.9	3.5	9.0	43	12	6.0	1.4	1.3	1.6
9	2.2	2.9	6.5	6.1	3.6	8.6	39	11	9.0	1.2	1.1	1.5
10	1.9	2.8	7.0	6.4	3.7	8.2	63	10	6.0	1.1	1.1	1.5
11	2.3	2.7	6.5	6.1	3.8	7.8	64	9.0	4.0	1.0	1.6	1.4
12	2.8	3.2	6.0	5.8	4.0	7.6	86	8.3	2.9	.95	1.6	1.4
13	3.3	3.3	5.8	5.8	4.5	7.4	105	7.3	2.5	.98	1.2	1.7
14	4.9	4.3	5.6	5.8	7.6	7.8	83	6.6	2.1	2.9	1.2	1.7
15	6.0	9.4	5.3	5.8	7.4	15	43	6.1	1.9	3.7	1.1	2.0
16	5.8	11	5.0	5.8	7.2	50	31	4.9	1.7	2.9	1.1	1.9
17	4.6	8.1	5.6	5.6	8.6	70	24	7.5	1.6	4.6	.91	1.8
18	3.5	6.1	6.0	5.2	8.4	60	30	7.8	1.4	12	.89	1.8
19	2.5	5.9	6.0	5.0	8.2	47	34	6.5	1.3	6.1	.83	1.7
20	2.2	6.9	5.8	4.7	8.0	31	45	5.6	1.2	4.0	.79	2.7
21	2.0	9.8	5.6	4.5	7.8	24	47	12	6.0	2.9	1.1	6.0
22	3.0	8.5	5.4	4.4	7.6	19	53	12	5.0	2.1	1.7	5.5
23	15	7.0	6.2	4.4	7.4	17	43	8.4	3.5	1.5	8.3	3.8
24	17	5.7	6.1	4.4	7.2	14	28	6.7	3.2	1.5	7.8	2.8
25	8.9	4.9	6.1	4.4	6.8	12	25	7.7	5.4	1.5	4.6	2.7
26	5.8	4.5	6.0	4.5	7.2	11	22	6.7	4.5	1.1	3.4	2.6
27	5.4	4.5	6.0	4.9	8.0	10	20	7.4	3.5	4.0	2.5	2.3
28	4.0	9.7	5.9	4.7	11	10	17	6.8	2.7	3.0	27	2.0
29	3.5	17	5.8	4.5	------	9.9	18	8.2	2.2	2.2	59	1.9
30	3.3	13	5.8	4.4	------	9.9	22	5.0	1.8	2.2	17	1.9
31	3.1	------	5.8	4.1	------	10	------	3.9	------	8.3	9.8	------
TOTAL	138.0	175.1	190.8	164.8	168.1	542.0	1,278	425.4	100.5	106.53	186.32	73.8
MEAN	4.45	5.84	6.15	5.32	6.00	17.5	42.6	13.7	3.35	3.44	6.01	2.46
MAX	17	17	9.5	6.4	11	70	105	73	9.0	12	59	6.0
MIN	1.9	2.7	5.0	4.1	3.5	7.4	11	3.9	1.2	.95	.79	1.4
CFSM	.53	.69	.73	.63	.71	2.07	5.04	1.62	.40	.41	.71	.29
IN.	.61	.77	.84	.73	.74	2.39	5.63	1.87	.44	.47	.82	.32

CAL YR 1970 TOTAL 2,381.69 MEAN 6.53 MAX 84 MIN .72 CFSM .77 IN 10.49
WTR YR 1971 TOTAL 3,549.35 MEAN 9.72 MAX 105 MIN .79 CFSM 1.15 IN 15.63

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-16	2100	-	80				
4-13	0030	4.69	131				
5-4	1715	4.41	99				
8-29	0315	4.28	86				

NOTE.--No gage-height record June 7 to July 10.

04293000 Missisquoi River near North Troy, Vt.

LOCATION.--Lat 44°58'22", long 72°23'15", Orleans County, on right bank 200 ft upstream from Big Falls, 1.5 miles downstream from Jay Branch, and 2.2 miles upstream from North Troy.

DRAINAGE AREA.--131 sq mi.

PERIOD OF RECORD.--August 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 580 ft (from topographic map).

AVERAGE DISCHARGE.--40 years, 263 cfs (27.26 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,090 cfs Aug. 28 (gage height, 11.22 ft); from rating curve extended as explained below; minimum, 32 cfs Aug. 20; minimum daily, 34 cfs Aug. 20.

Period of record: Maximum discharge, 7,980 cfs May 3, 1940 (gage height, 12.87 ft), from rating curve extended above 3,600 cfs on basis of computation of flow over dam at gage height 11.70 ft; minimum, 9.4 cfs Aug. 28, 1949; minimum daily, 11 cfs Aug. 28, 1949, Aug. 30, 1953.

REMARKS.--Records good except those for winter period, which are fair. Occasional regulation at low flow caused by small powerplant above station; greater regulation prior to 1967.

REVISIONS (WATER YEARS).--WSP 924: 1940. WSP 1114: 1933(M), 1936-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	85	306	82	71	185	142	1,420	113	443	246	194
2	138	83	266	81	70	160	197	1,290	101	729	252	136
3	159	80	271	81	69	145	516	1,460	114	179	151	106
4	292	77	190	80	68	135	550	3,080	128	102	146	93
5	215	76	175	95	67	125	396	2,100	100	78	103	90
6	160	77	175	120	69	120	374	1,490	87	67	80	161
7	127	78	145	115	72	115	363	1,570	81	62	69	118
8	108	77	120	105	72	115	289	1,460	320	59	60	90
9	96	72	130	97	77	110	332	1,380	251	54	52	82
10	89	71	140	91	84	110	508	1,340	135	48	47	72
11	86	83	130	88	90	115	681	1,340	100	42	88	66
12	88	123	125	84	86	115	1,120	1,180	85	40	80	70
13	260	100	120	82	92	110	1,700	1,120	77	39	56	141
14	230	96	115	80	150	120	1,300	642	70	204	47	129
15	300	230	110	78	300	170	900	479	65	246	43	174
16	390	321	105	77	260	350	700	524	63	98	43	114
17	240	194	100	75	230	340	800	588	59	139	39	87
18	170	143	97	74	200	310	1,200	519	55	501	37	82
19	135	134	95	73	175	280	1,700	482	52	163	35	78
20	115	195	93	72	160	250	2,100	418	48	143	34	117
21	102	763	92	72	150	220	2,300	491	92	103	62	400
22	103	579	90	71	140	200	1,800	519	121	78	100	240
23	253	374	89	70	130	184	1,400	349	71	65	406	133
24	263	286	88	70	125	175	1,100	248	58	66	402	103
25	187	198	87	70	120	161	1,100	218	74	92	143	92
26	146	143	86	73	115	145	1,100	249	166	70	87	79
27	124	167	85	78	120	148	1,200	273	87	126	73	73
28	109	252	84	77	180	150	1,400	244	64	101	2,430	69
29	100	460	84	75	------	150	1,570	194	54	68	2,750	68
30	94	345	83	74	------	141	1,340	157	51	73	530	79
31	89	------	82	72	------	136	------	132	------	255	327	------
TOTAL	5,149	5,962	3,958	2,532	3,542	5,290	30,178	26,956	2,942	4,533	9,018	3,536
MEAN	166	199	128	81.7	127	171	1,006	870	98.1	146	291	118
MAX	390	763	306	120	300	350	2,300	3,080	320	729	2,750	400
MIN	86	71	82	70	67	110	142	132	48	39	34	66
CFSM	1.27	1.52	.98	.62	.97	1.31	7.68	6.64	.75	1.11	2.22	.90
IN.	1.46	1.69	1.12	.72	1.01	1.50	8.57	7.65	.84	1.29	2.56	1.00

CAL YR 1970 TOTAL 83,040 MEAN 228 MAX 3,850 MIN 19 CFSM 1.74 IN 23.58
WTR YR 1971 TOTAL 103,596 MEAN 284 MAX 3,080 MIN 34 CFSM 2.17 IN 29.42

PEAK DISCHARGE (BASE, 3,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1215	8.45	3,480				
8-28	1515	11.22	6,090				

04293500 Missisquoi River near Richford, Vt.

LOCATION.--Lat 44°57'30", long 72°41'55", Franklin County, on left bank 1.7 miles upstream from Trout River, 3 miles south of Richford, and 3.8 miles downstream from North Branch.

DRAINAGE AREA.--479 sq mi.

PERIOD OF RECORD.--July 1911 to September 1923, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Altitude of gage is 410 ft (from topographic map). Prior to Aug. 1, 1915, nonrecording gage at site 0.2 mile downstream at datum 4.35 ft lower. Aug. 1, 1915, to Sept. 30, 1923, water-stage recorder at present site and datum. Oct. 1, 1928, to Sept. 30, 1929, nonrecording gage at former site at datum 4.6 ft lower.

AVERAGE DISCHARGE.--55 years, 902 cfs (25.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,700 cfs Aug. 28 (gage height, 13.23 ft); minimum, 78 cfs Aug. 20.

Period of record: Maximum discharge, 17,200 cfs May 4, 1940 (gage height, 15.15 ft), from rating curve extended above 9,300 cfs on basis of computation of peak flow over dam at gage height 14.70 ft, slope-area measurement at gage height 12.90 ft, and study of discharge per foot of width at measuring section; maximum gage height, 18.92 ft Mar. 15, 1946 (ice jam); minimum discharge observed, 8 cfs July 14, 1911.

Maximum discharge since at least 1830, 45,000 cfs during flood of November 1927 (gage height, 23.1 ft, from floodmarks), from rating curve extended above 9,300 cfs as explained above.

REMARKS.--Records good except those for winter period, which are fair. Diurnal fluctuation at low flow prior to 1934. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 784: Drainage area. WSP 1237: 1913-14(M), 1922(M), 1923, 1929-30. WSP 1307: 1916(M). WSP 1437: 1912.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	916	382	1,480	290	265	660	480	4,740	372	393	852	1,430
2	675	358	1,230	290	260	580	600	4,400	325	1,230	452	773
3	731	338	1,140	290	255	530	900	4,260	344	717	675	505
4	1,070	316	1,000	290	255	500	1,400	6,370	372	316	452	401
5	988	295	900	350	255	480	1,500	8,100	328	224	365	348
6	724	298	780	400	265	460	1,600	6,070	281	178	275	405
7	564	289	600	400	270	450	1,600	4,980	251	159	215	495
8	470	275	500	380	270	440	1,300	4,430	731	148	188	379
9	417	261	550	350	290	430	1,000	3,930	932	139	168	313
10	368	253	580	330	310	420	1,400	3,610	510	126	146	292
11	338	261	540	310	335	415	2,100	3,340	351	110	198	259
12	344	319	490	300	345	410	3,440	3,000	284	96	240	237
13	1,040	348	460	290	360	410	4,860	2,810	242	89	198	335
14	1,030	341	430	285	600	430	5,470	2,030	213	213	148	515
15	1,220	710	410	280	900	600	4,300	1,450	188	610	124	558
16	1,500	1,230	390	275	950	1,150	2,870	1,360	173	351	110	515
17	1,190	964	370	270	850	1,200	2,140	1,400	161	251	102	409
18	860	689	360	265	750	1,150	2,370	1,330	146	510	94	354
19	647	604	350	260	650	1,000	3,280	1,210	133	490	85	319
20	525	724	340	260	600	900	5,440	1,080	120	295	85	348
21	452	1,700	335	255	550	800	6,610	1,100	924	251	112	780
22	434	2,480	330	255	500	720	7,050	1,300	924	193	110	988
23	1,190	1,680	325	250	480	660	5,750	1,050	417	152	520	628
24	1,730	1,330	320	250	460	620	3,960	880	264	137	940	457
25	1,230	964	315	250	450	580	3,410	820	251	161	558	386
26	924	745	310	260	440	540	3,400	920	586	175	316	328
27	738	661	305	290	470	520	3,360	972	447	242	253	286
28	604	1,080	300	290	630	510	3,610	924	284	264	4,680	261
29	515	1,810	300	280	------	510	4,430	710	210	195	9,190	248
30	452	1,680	295	275	------	500	4,820	547	180	163	6,070	242
31	413	------	295	270	------	480	------	438	------	682	2,870	------
TOTAL	24,299	23,385	16,330	9,090	13,015	19,055	94,450	79,561	10,944	9,260	30,791	13,796
MEAN	784	780	527	293	465	615	3,148	2,566	365	299	993	460
MAX	1,730	2,480	1,480	400	950	1,200	7,050	8,100	932	1,230	9,190	1,430
MIN	338	253	295	250	255	410	480	438	120	89	85	237
CFSM	1.64	1.63	1.10	.61	.97	1.28	6.57	5.36	.76	.62	2.07	.96
IN.	1.89	1.82	1.27	.71	1.01	1.48	7.34	6.18	.85	.72	2.39	1.07

CAL YR 1970 TOTAL 306,266 MEAN 839 MAX 9,740 MIN 60 CFSM 1.75 IN 23.79
WTR YR 1971 TOTAL 343,974 MEAN 942 MAX 9,190 MIN 85 CFSM 1.97 IN 26.71

PEAK DISCHARGE (BASE, 7,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-5	0630	10.92	8,880				
8-28	2230	13.23	12,700				

04294500 Lake Champlain at Burlington, Vt.

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, 50 ft south of Gulf Oil Co. dock at Burlington, 0.1 mile north of Burlington Water Department pumping station, and 0.5 mile north of railroad station.

PERIOD OF RECORD.--May 1907 to current year.

GAGE.--Water-stage recorder. Datum of gage is 92.86 ft above mean sea level. Prior to July 20, 1937, nonrecording gage at site 0.7 mile south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mile south, both at present datum.

EXTREMES.--Current year: Maximum gage height, 8.38 ft May 9; minimum, 1.82 ft Oct. 3, Nov. 10, affected by seiche.
Period of record: Maximum gage height observed, 8.65 ft Mar. 27, 28, 1936; minimum observed, -0.25 ft Dec. 4, 1908.

REMARKS.--Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.92	2.13	2.19	2.22	2.10	2.52	3.44	7.44	6.65	3.84	2.90	3.58
2	1.88	2.14	2.11	2.20	2.10	2.57	3.42	7.50	6.50	3.82	2.89	3.58
3	1.88	2.14	2.17	2.19	2.09	2.61	3.54	7.60	6.37	3.78	2.88	3.54
4	1.92	2.10	2.33	2.16	2.08	2.73	3.73	7.80	6.28	3.74	2.95	3.56
5	1.95	2.08	2.31	2.17	2.07	2.75	3.92	8.02	6.17	3.67	3.01	3.58
6	1.93	2.03	2.31	2.18	2.08	2.77	4.08	8.16	6.02	3.59	3.01	3.57
7	1.92	1.96	2.30	2.18	2.06	2.80	4.20	8.26	5.90	3.53	2.99	3.51
8	1.94	1.98	2.28	2.19	2.08	2.83	4.36	8.32	5.81	3.49	2.95	3.47
9	1.95	1.93	2.24	2.19	2.08	2.84	4.50	8.36	5.73	3.44	2.94	3.45
10	1.93	1.84	2.29	2.18	2.06	2.84	4.60	8.37	5.62	3.37	2.91	3.43
11	1.94	1.87	2.29	2.18	2.04	2.87	4.85	8.36	5.50	3.30	2.89	3.40
12	1.92	1.87	2.29	2.18	2.03	2.88	5.05	8.35	5.38	3.25	2.88	3.37
13	1.95	1.89	2.28	2.17	2.08	2.89	5.35	8.32	5.29	3.20	2.84	3.34
14	1.94	1.91	2.28	2.15	2.13	2.90	5.65	8.28	5.20	3.15	2.81	3.33
15	1.99	1.91	2.26	2.17	2.15	2.88	5.90	8.19	5.07	3.14	2.80	3.32
16	2.04	1.94	2.24	2.16	2.17	2.94	6.05	8.06	4.95	3.13	2.79	3.31
17	2.06	1.94	2.28	2.16	2.19	3.07	6.10	8.01	4.86	3.10	2.73	3.30
18	2.05	1.96	2.29	2.17	2.22	3.18	6.15	7.94	4.76	3.08	2.69	3.30
19	2.05	1.94	2.27	2.16	2.24	3.28	6.25	7.85	4.65	3.07	2.66	3.32
20	2.01	1.94	2.27	2.16	2.27	3.37	6.35	7.76	4.54	3.06	2.63	3.34
21	1.99	1.99	2.26	2.15	2.33	3.42	6.60	7.75	4.50	3.03	2.61	3.32
22	2.01	2.02	2.26	2.16	2.34	3.45	6.80	7.71	4.46	2.99	2.60	3.29
23	2.07	2.05	2.27	2.15	2.35	3.46	6.90	7.64	4.38	2.93	2.67	3.27
24	2.14	2.08	2.28	2.14	2.43	3.48	7.05	7.51	4.30	2.91	2.66	3.25
25	2.20	2.10	2.28	2.13	2.44	3.47	7.13	7.38	4.25	2.91	2.66	3.24
26	2.24	2.04	2.27	2.13	2.45	3.46	7.18	7.29	4.18	2.89	2.63	3.22
27	2.26	2.07	2.25	2.16	2.45	3.46	7.22	7.21	4.13	2.90	2.62	3.20
28	2.24	2.12	2.24	2.14	2.48	3.45	7.26	7.12	4.08	2.89	2.76	3.17
29	2.22	2.13	2.23	2.12	------	3.45	7.31	7.00	3.96	2.85	3.12	3.15
30	2.20	2.14	2.22	2.11	------	3.44	7.39	6.90	3.88	2.85	3.39	3.13
31	2.16	------	2.23	2.12	------	3.43	------	6.78	------	2.90	3.51	------
MEAN	2.03	2.01	2.26	2.16	2.20	3.08	5.61	7.78	5.11	3.22	2.85	3.36
MAX	2.26	2.14	2.33	2.22	2.48	3.48	7.39	8.37	6.65	3.84	3.51	3.58
MIN	1.88	1.84	2.11	2.11	2.03	2.52	3.42	6.78	3.88	2.85	2.60	3.13

CAL YR 1970 MEAN 3.23 MAX 7.60 MIN 1.67
WTR YR 1971 MEAN 3.48 MAX 8.37 MIN 1.84

NOTE.--No gage-height record Apr. 2-27, Sept. 9-30.

04295500 Lake Memphremagog at Newport, Vt.

LOCATION.--Lat 44°56'15", long 72°12'21", Orleans County, on west side of bridge on U.S. Highway 5 at Newport.

PERIOD OF RECORD.--May 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.00 ft above mean sea level. Prior to July 21, 1934, nonrecording gage on highway bridge 0.1 mile southeast at same datum. July 21, 1934, to Aug. 22, 1961, nonrecording gage on east side, and Aug. 23, 1961, to Oct. 18, 1966, on west side of bridge at present site and datum.

EXTREMES.--Current year: Maximum gage height, 10.81 ft May 7; minimum, 6.87 ft Mar. 15 (affected by seiche).
Period of record: Maximum gage height observed, 12.92 ft Apr. 20, 1933; minimum recorded, 6.48 ft Nov. 2, 1968 (affected by seiche), but may have been lower during period of use of nonrecording gage.

REMARKS.--Elevation of lake regulated by powerplant and gates at Magog, Quebec.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.56	9.02	8.79	8.62	7.79	7.18	6.96	10.24	10.05	9.26	9.20	9.91
2	9.45	9.00	8.72	8.61	7.74	7.16	6.94	10.30	10.00	9.20	9.22	9.87
3	9.48	8.95	8.82	8.58	7.68	7.15	6.98	10.37	9.95	9.15	9.21	9.85
4	9.50	8.87	8.97	8.56	7.64	7.17	7.05	10.48	9.90	9.22	9.24	9.85
5	9.50	8.83	8.92	8.55	7.52	7.17	7.10	10.62	9.85	9.18	9.25	9.85
6	9.43	8.76	8.93	8.56	7.48	7.15	7.15	10.75	9.83	9.13	9.23	9.84
7	9.40	8.69	8.97	8.57	7.44	7.15	7.21	10.80	9.83	9.08	9.26	9.79
8	9.36	8.68	8.92	8.58	7.42	7.14	7.24	10.79	9.85	9.03	9.23	9.80
9	9.32	8.62	8.90	8.57	7.40	7.11	7.26	10.76	9.82	9.05	9.24	9.78
10	9.25	8.52	8.89	8.56	7.37	7.08	7.31	10.69	9.80	9.04	9.22	9.72
11	9.21	8.52	8.89	8.54	7.32	7.05	7.37	10.60	9.80	8.97	9.23	9.66
12	9.20	8.49	8.86	8.52	7.29	7.02	7.49	10.46	9.75	8.97	9.26	9.64
13	9.22	8.47	8.85	8.48	7.29	6.99	7.70	10.39	9.70	9.04	9.21	9.63
14	9.16	8.47	8.83	8.45	7.30	6.95	7.97	10.28	9.65	9.02	9.21	9.65
15	9.17	8.43	8.82	8.43	7.29	6.91	8.12	10.22	9.65	9.00	9.24	9.66
16	9.23	8.47	8.77	8.40	7.30	6.93	8.23	10.19	9.63	9.02	9.21	9.66
17	9.27	8.47	8.77	8.35	7.29	6.99	8.31	10.16	9.60	9.04	9.14	9.64
18	9.24	8.45	8.79	8.33	7.28	7.04	8.39	10.13	9.57	9.07	9.15	9.64
19	9.23	8.43	8.77	8.31	7.28	7.08	8.50	10.12	9.54	9.05	9.13	9.59
20	9.18	8.35	8.75	8.27	7.28	7.13	8.77	10.14	9.50	9.06	9.08	9.51
21	9.19	8.42	8.75	8.23	7.29	7.16	9.17	10.15	9.51	9.09	9.07	9.62
22	9.22	8.52	8.70	8.19	7.28	7.17	9.49	10.11	9.52	9.11	9.08	9.66
23	9.27	8.50	8.71	8.16	7.29	7.17	9.72	10.13	9.47	9.13	9.19	9.62
24	9.30	8.64	8.74	8.11	7.30	7.16	9.82	10.12	9.45	9.10	9.17	9.63
25	9.30	8.65	8.74	8.06	7.27	7.13	9.91	10.09	9.45	9.12	9.14	9.59
26	9.30	8.62	8.73	8.03	7.23	7.11	9.95	10.12	9.41	9.14	9.13	9.57
27	9.27	8.60	8.72	7.99	7.19	7.09	10.01	10.15	9.37	9.13	9.12	9.52
28	9.20	8.60	8.72	7.95	7.18	7.07	10.04	10.13	9.34	9.12	9.34	9.47
29	9.15	8.60	8.71	7.91	------	7.05	10.11	10.15	9.32	9.10	9.77	9.40
30	9.10	8.70	8.67	7.87	------	7.01	10.19	10.16	9.28	9.11	9.91	9.42
31	9.04	------	8.62	7.82	------	6.99	------	10.10	------	9.17	9.93	------
MEAN	9.28	8.61	8.80	8.33	7.37	7.09	8.35	10.32	9.65	9.09	9.26	9.67
MAX	9.56	9.02	8.97	8.62	7.79	7.18	10.19	10.80	10.05	9.26	9.93	9.91
MIN	9.04	8.35	8.62	7.82	7.18	6.91	6.94	10.09	9.28	8.97	9.07	9.40

CAL YR 1970 MEAN 8.86 MAX 10.97 MIN 6.93
WTR YR 1971 MEAN 8.83 MAX 10.80 MIN 6.91

NOTE.-- No gage-height record May 27 to July 27.

04296000 Black River at Coventry, Vt.

LOCATION.--Lat 44°52'08", long 72°16'14", Orleans County, on right bank 15 ft downstream from highway bridge, 800 ft upstream from Stony Brook, and 0.4 mile northwest of Coventry.

DRAINAGE AREA.--122 sq mi.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 725 ft (from topographic map).

AVERAGE DISCHARGE.--20 years, 189 cfs (21.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,790 cfs May 4 (gage height, 6.23 ft); minimum daily, 23 cfs Aug. 20.
Period of record: Maximum discharge, 3,110 cfs Apr. 18, 1970 (gage height, 7.28 ft); minimum daily, 11 cfs Aug. 29 to Sept. 1, 1953.

REMARKS.--Records excellent except those for winter period, which are fair. Occasional diurnal fluctuation at low flow by mill above station; greater regulation prior to 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	77	195	74	64	165	120	1,110	104	94	70	130
2	100	78	194	74	63	155	141	1,050	93	331	62	84
3	96	72	181	73	62	145	270	1,140	96	225	53	64
4	139	68	150	73	61	136	360	1,710	136	119	58	54
5	137	67	149	80	61	125	330	1,560	113	72	74	48
6	113	66	139	100	60	120	320	1,210	92	57	58	52
7	92	65	127	105	64	120	347	1,030	95	51	45	57
8	79	62	105	95	63	117	300	900	252	49	39	51
9	71	59	115	86	66	116	285	799	271	48	35	45
10	63	59	115	82	74	110	362	723	147	45	33	41
11	56	69	110	78	83	111	444	644	105	40	32	38
12	53	104	105	76	82	110	670	577	86	35	30	40
13	58	96	105	74	86	110	885	524	74	34	29	68
14	79	81	100	72	150	112	937	456	67	44	28	138
15	177	107	96	70	225	137	768	383	61	70	27	157
16	398	186	92	69	230	261	683	317	57	84	26	132
17	361	160	89	68	215	320	586	268	56	67	25	87
18	310	117	87	67	188	300	629	249	54	77	25	66
19	164	107	86	66	164	280	905	219	50	71	24	74
20	116	141	85	65	146	262	1,330	183	47	67	23	88
21	101	303	84	64	133	234	1,610	194	52	9	29	179
22	99	306	83	64	125	210	1,580	275	84	58	33	225
23	154	260	81	64	120	180	1,230	268	82	46	65	160
24	209	189	90	64	113	165	926	198	60	42	103	101
25	166	144	80	62	110	155	915	159	55	44	94	81
26	123	114	79	65	109	140	875	173	96	45	55	70
27	108	118	78	68	125	135	880	197	109	44	42	59
28	105	228	77	70	156	135	926	200	74	49	373	53
29	96	275	76	68	------	140	1,100	189	55	50	643	50
30	86	231	75	66	------	135	1,100	146	48	45	383	49
31	91	------	75	65	------	129	------	120	------	52	263	------
TOTAL	4,118	4,009	3,293	2,267	3,198	5,070	21,814	17,171	2,761	2,224	2,879	2,541
MEAN	133	134	106	73.1	114	164	727	554	92.0	71.7	92.9	84.7
MAX	398	306	195	105	230	320	1,610	1,710	271	331	643	225
MIN	53	59	75	62	60	110	120	120	47	34	23	38
CFSM	1.09	1.10	.87	.60	.93	1.34	5.96	4.54	.75	.59	.76	.69
IN.	1.26	1.22	1.00	.69	.98	1.55	6.65	5.24	.84	.68	.88	.77

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CAL YR 1970  TOTAL 65,950   MEAN 181   MAX 2,820   MIN 22   CFSM 1.48   IN 20.11
WTR YR 1971  TOTAL 71,345   MEAN 195   MAX 1,710   MIN 23   CFSM 1.60   IN 21.75
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PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-21	0015	6.16	1,730				
5-4	1045	6.23	1,790				

04296200 Brownington Branch near Evansville, Vt.

LOCATION.--Lat 44°50'02", long 72°04'00", Orleans County, on right bank 10 ft upstream from culvert on State Highway 5A, 0.5 mile upstream from Moody Brook, and 4 miles northeast of Evansville.

DRAINAGE AREA.--2.15 sq mi.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,170 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 3.27 cfs (20.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 43 cfs May 7 (gage height, 4.48 ft); maximum gage height, 5.11 ft Feb. 14 (backwater from ice); no flow Aug. 8-22.

Period of record: Maximum discharge, 158 cfs May 20, 1969 (gage height, 7.68 ft), from rating curve extended above 89 cfs on basis of computation of flow through culvert at gage height 6.67 ft; no flow at times in water years 1966, 1968-71.

REMARKS.--Records good except those for winter period or periods of no gage-height record, which are fair. Recording rain gage at station since April 1964 (no winter records).

REVISIONS (WATER YEARS).--WRD Mass., N.H., R.I., Vt., 1968: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	1.1	4.9	1.2	.48	2.2	1.7	16	1.0	1.8	.07	.41
2	1.9	1.0	5.1	1.2	.47	2.0	2.7	16	.77	1.6	.04	.18
3	2.2	.97	4.9	1.2	.46	1.9	4.0	17	1.1	.48	.07	.11
4	3.1	.95	3.4	1.2	.45	1.8	5.6	16	.93	.18	.22	.11
5	2.3	.93	3.1	1.4	.45	1.7	5.0	16	.55	.11	.08	.10
6	1.8	.91	2.9	2.0	.45	1.7	4.7	18	.41	.07	.05	.10
7	1.4	.93	2.5	1.7	.48	1.7	4.5	20	.41	.07	.02	.10
8	1.2	.93	2.1	1.5	.47	1.6	3.8	18	9.3	.06	0	.08
9	1.0	.77	2.2	1.3	.49	1.6	3.6	21	3.5	.05	0	.04
10	.93	.77	2.2	1.2	.55	1.6	5.8	17	1.7	.03	0	.02
11	.81	1.4	2.0	1.1	.64	1.5	7.8	13	1.2	.01	0	.02
12	.77	1.6	2.0	1.0	.62	1.5	13	9.5	.70	.01	0	1.8
13	.90	1.4	1.9	.95	.70	1.5	19	9.9	.55	.01	0	1.9
14	1.2	1.2	1.9	.90	1.3	1.6	14	7.1	.41	.13	0	1.9
15	3.5	2.2	1.7	.85	2.2	2.0	9.9	5.1	.28	.18	0	2.3
16	9.0	3.8	1.6	.80	2.0	3.6	7.3	4.1	.18	.07	0	1.0
17	7.0	2.7	1.5	.77	1.8	4.6	6.1	5.0	.13	.07	0	.48
18	5.1	2.0	1.5	.74	1.7	4.2	6.5	4.1	.11	.18	0	2.3
19	3.1	2.2	1.4	.71	1.6	3.9	14	3.0	.08	.10	0	1.2
20	2.0	3.4	1.4	.69	1.5	3.5	20	2.3	.07	.62	0	1.6
21	1.7	11	1.4	.65	1.4	3.0	15	2.3	.48	.18	0	5.3
22	1.6	5.6	1.3	.62	1.3	2.7	15	4.4	.55	.07	0	2.4
23	2.1	4.9	1.3	.60	1.3	2.4	12	3.0	.15	.04	1.2	1.3
24	3.5	3.7	1.3	.58	1.2	2.2	12	2.3	.11	.02	.48	.77
25	2.6	2.5	1.3	.56	1.2	2.1	15	1.9	.70	.02	.10	.48
26	2.1	2.2	1.3	.56	1.3	1.9	14	4.2	1.6	.02	.05	.34
27	1.8	2.2	1.3	.58	1.7	1.8	15	3.3	.48	.03	.04	.22
28	1.6	6.0	1.2	.56	2.3	1.8	18	4.5	.18	.05	13	.18
29	1.5	7.7	1.2	.54	------	1.9	15	2.6	.11	.02	6.3	.15
30	1.3	6.4	1.2	.52	------	1.8	17	1.7	.10	.04	1.8	.18
31	1.2	------	1.2	.50	------	1.7	------	1.3	------	.04	.93	------
TOTAL	72.71	83.36	64.2	28.68	30.51	69.0	307.0	269.6	27.84	6.36	24.45	27.07
MEAN	2.35	2.78	2.07	.93	1.09	2.23	10.2	8.70	.93	.21	.79	.90
MAX	9.0	11	5.1	2.0	2.3	4.6	20	21	9.3	1.8	13	5.3
MIN	.77	.77	1.2	.50	.45	1.5	1.7	1.3	.07	.01	0	.02
CFSM	1.09	1.29	.96	.43	.51	1.04	4.74	4.05	.43	.10	.37	.42
IN.	1.26	1.44	1.11	.50	.53	1.19	5.31	4.66	.48	.11	.42	.47

CAL YR 1970 TOTAL 1,185.47 MEAN 3.25 MAX 69 MIN 0 CFSM 1.51 IN 20.51
WTR YR 1971 TOTAL 1,010.78 MEAN 2.77 MAX 21 MIN 0 CFSM 1.29 IN 17.49

PEAK DISCHARGE (BASE, 80 CFS, REVISED).--No peak above base.

NOTE.--No gage-height record Oct. 8 to Nov. 6, Feb. 14 to Mar. 12.

04296500 Clyde River at Newport, Vt.

LOCATION.--Lat 44°56'22", long 72°11'23", Orleans County, on right bank in Newport, just downstream from small right-bank tributary and 1 mile upstream from mouth.

DRAINAGE AREA.--142 sq mi.

PERIOD OF RECORD.--May 1909 to September 1919, May 1920 to August 1922, October 1922 to September 1924, November 1928 to May 1936, September 1938 to current year. Prior to November 1928, published as "at West Derby."

GAGE.--Water-stage recorder and, since Mar. 6, 1957, records of power generation. Datum of gage is 682.36 ft above mean sea level. May 25, 1909, to Sept. 20, 1915, nonrecording gage, and Sept. 21, 1915, to Sept. 30, 1924, Nov. 16, 1928, to May 4, 1936, water-stage recorder, at site 0.65 mile upstream at different datum.

AVERAGE DISCHARGE.--52 years (1909-19, 1920-21, 1922-24, 1929-35, 1938-71), 251 cfs (24.00 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 1,600 cfs May 6; minimum daily, 32 cfs June 20, 26.
Period of record: Maximum discharge, 3,900 cfs Mar. 20, 1936 (gage height, 5.76 ft, site and datum then in use), from rating curve extended above 2,800 cfs on basis of computation of peak flow over dam; minimum daily, 2.6 cfs June 18, 1956.

REMARKS.--Records fair. Flow regulated by powerplant and reservoirs above station and, since Mar. 6, 1957, by diversion around station through canal and penstock of powerplant below station. Diversion computed from relation of kilowatt-hour output and measured discharge; discharge computed by adding flow over control to flow diverted through powerplant.

COOPERATION.--Records of power generation furnished by Citizens Utilities Co.

REVISIONS (WATER YEARS).--WSP 744: 1913(M), drainage area. WSP 924: 1940. WSP 1307: 1913-15(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	137	208	105	160	155	224	1,060	400	170	48	325
2	331	192	224	180	165	152	190	1,080	349	172	141	314
3	233	186	212	155	160	155	241	1,140	348	169	97	291
4	214	139	221	220	150	167	298	1,320	275	37	80	190
5	217	156	179	220	150	156	219	1,540	226	98	127	144
6	191	169	210	210	75	72	305	1,600	284	187	122	139
7	203	66	222	200	68	37	303	1,520	265	196	76	180
8	210	36	245	205	135	200	293	1,430	287	132	56	144
9	199	172	187	135	121	193	299	1,420	252	92	170	174
10	149	197	132	91	144	219	295	1,410	265	37	119	170
11	150	234	156	215	168	189	307	1,390	253	38	81	52
12	130	196	112	200	226	202	340	1,350	264	83	104	35
13	206	200	89	225	185	135	406	1,320	269	82	105	196
14	182	90	206	190	87	128	406	1,240	254	68	40	230
15	170	65	139	190	180	150	408	1,090	214	43	48	136
16	209	142	157	140	175	214	431	920	232	194	56	168
17	243	197	161	85	215	209	543	777	210	133	55	192
18	309	193	207	220	164	215	565	692	236	37	57	257
19	329	200	101	185	221	241	600	637	95	71	56	253
20	327	158	135	150	201	320	673	599	32	55	49	206
21	329	146	180	140	128	319	810	578	182	109	35	264
22	328	99	205	160	178	302	959	566	85	126	35	263
23	256	240	210	125	168	245	1,020	539	176	162	150	263
24	220	238	180	34	156	225	1,020	508	123	115	109	177
25	217	211	165	160	188	196	993	482	148	63	91	177
26	219	218	235	175	190	200	965	466	32	108	182	166
27	207	207	175	210	203	206	919	450	126	82	175	175
28	217	154	215	165	88	185	913	431	172	79	227	170
29	216	286	205	155	------	197	959	410	161	89	326	170
30	173	213	210	64	------	101	1,010	416	165	99	343	116
31	158	------	190	70	------	238	------	409	------	54	335	------
TOTAL	7,065	5,105	5,673	5,038	4,449	5,923	16,914	28,790	6,380	3,180	3,695	5,737
MEAN	228	170	183	163	159	191	564	929	213	103	119	191
MAX	331	286	245	225	226	320	1,020	1,600	400	196	343	325
MIN	130	36	89	34	68	37	190	409	32	37	35	35
CFSM	1.61	1.20	1.29	1.15	1.12	1.35	3.97	6.54	1.50	.73	.84	1.35
IN.	1.85	1.34	1.49	1.32	1.17	1.55	4.43	7.54	1.67	.83	.97	1.50

CAL YR 1970 TOTAL 93,351 MEAN 256 MAX 1,850 MIN 35 CFSM 1.80 IN 24.46
WTR YR 1971 TOTAL 97,949 MEAN 268 MAX 1,600 MIN 32 CFSM 1.89 IN 25.66

NOTE.--Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second, a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1971

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Merrimack River basin				
01093510	Little Cohas Brook near Londonderry, N.H.	Lat 42°53'53", long 71°23'15", Rockingham County, at culvert 2.4 miles north of Londonderry.	0.85	1964-65, 1967-68, 1970-71	9-24-71	0
01093900	Tucker Brook near Wilton, N.H.	Lat 42°49'44", long 71°42'13", Hillsborough County, at bridge on Whitten Rd., 2 miles southeast of Wilton.	2.70	1964-65, 1967-68, 1970-71	9-24-71	.04
01093910	Tucker Brook near Milford, N.H.	Lat 42°50'26", long 71°40'59", Hillsborough County, at culvert on State Highway 101, 1.5 miles west of Milford.	3.88	1964-65, 1967-68, 1970-71	9-24-71	0
01094010	Naticook Brook near South Merrimack, N.H.	Lat 42°49'44", long 71°30'56", Hillsborough County, at culvert just below Green Pond, and 2.7 miles northeast of South Merrimack.	1.36	1964-65, 1967-68, 1970-71	9-24-71	0
01094020	Naticook Brook near Merrimack, N.H.	Lat 42°50'26", long 71°29'56", Hillsborough County, at culvert on Amherst Rd., 1.5 miles southeast of Merrimack and 0.5 mile west of Thorntons Ferry.	2.23	1964-65, 1967-68, 1970-71	9-24-71	.14
01094040	Chase Brook near Hudson Center, N.H.	Lat 42°48'55", long 71°24'32", Hillsborough County, at culvert on Robinson Rd., 3 miles north of Hudson Center.	1.73	1964-65, 1967-68, 1970-71	9-24-71	.14
01094050	Chase Brook near Litchfield, N.H.	Lat 42°48'50", long 71°28'15", Hillsborough County, at culvert on State Highway 3A, 2 miles south of Litchfield.	8.24	1964-65, 1967-68, 1970-71	9-24-71	1.5
01094150	Witches Brook near Ponemah, N.H.	Lat 42°47'31", long 71°35'59", Hillsborough County, at bridge on State Highway 122, 2.2 miles south of Ponemah.	4.28	1964-65, 1967-68, 1970-71	9-24-71	.87
01094340	North Nashua River tributary near Westminster, Mass.	Lat 42°33'24", long 71°52'25", Worcester County, at bridge on Depot Rd., 2 miles northeast of Westminster.	-	1971	9- 4-71 9- 9-71	2.5 2.6
01094350	Flag Brook near Westminster, Mass.	Lat 42°32'07", long 71°51'01", Worcester County, at access road to Fitchburg municipal dump, 0.5 mile above Sawmill Pond, 3 miles east of Westminster.	1.28	1971	9- 4-71 9- 9-71 9-29-71	.62 .67 .64
01094370	Phillips Brook near Ashburnham, Mass.	Lat 42°37'32", long 71°52'58", Worcester County, at bridge on Whitney Hill Rd., 1.5 miles southeast of Ashburnham.	7.06	1971	9- 4-71 9- 9-71	1.7 1.1
01094390	Phillips Brook near Fitchburg, Mass.	Lat 42°34'46", long 71°50'50", Worcester County, 0.5 mile above Westminster Hill Rd., 2.2 miles west of City Hall, Fitchburg.	14.7	1971	9- 4-71 9- 9-71	1.7 2.3
01094460	Monoosnoc Brook at Leominster, Mass.	Lat 42°31'47", long 71°45'08", Worcester County, at bridge on Whitney St., 2,500 ft northeast of intersection of Mechanic St. and Main St.	11.0	1971	8-26-71 9-27-71	1.3 1.2
01094480	Fall Brook at Leominster, Mass.	Lat 42°30'32", long 71°44'43", Worcester County, at culvert on Elm Hill Ave., 2,200 ft above State Highway 117.	5.82	1971	8-26-71 9-27-71	3.3 6.3

Discharge measurements made at low-flow partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Merrimack River basin--Continued						
01094550	Wekepeke Brook near Lancaster, Mass.	Lat 42°29'19", long 71°42'51", Worcester County, at bridge on State Highway 117, 3 miles northwest of Lancaster.	11.5	1971	8-26-71 9-28-71	3.5 3.5
01094750	Waushacum Brook near Sterling, Mass.	Lat 42°24'34", long 71°45'56", Worcester County, 300 ft below outlet of West Waushacum Pond, 2 miles south of Sterling.	4.98	1971	8-26-71	.03
01094760	Waushacum Brook near West Boylston, Mass.	Lat 42°23'49", long 71°46'45", Worcester County, at culvert on Prescott St., 1.5 miles north of intersection of State Highways 12, 110, and 140, West Boylston.	7.42	1971	8-26-71	.13
01095050	Stillwater River at Moores Corners, near Sterling, Mass.	Lat 42°26'00", long 71°48'41", Worcester County, at bridge on State Highway 62, 2.5 miles west of Sterling.	25.7	1971	8-26-71 9- 9-71 9-30-71	1.9 1.7 3.2
01095220	Stillwater River near Sterling, Mass.	Lat 42°24'39", long 71°47'30", Worcester County, at bridge on Muddy Pond Rd., 2.5 miles southwest of Sterling.	30.3	1971	8-26-71 9- 9-71 9-30-71	2.4 3.2 3.6
01095330	Quinapoxet River near Holden, Mass.	Lat 42°22'50", long 71°51'23", Worcester County, at culvert on Mills St., 2 miles north of Holden Center.	21.8	1971	8-19-71 9-28-71	.35 .60
01095360	Asnebumskit Brook at Jefferson, Mass.	Lat 42°21'40", long 71°53'05", Worcester County, at culvert on State Highway 122A, 1 mile west of Holden Center.	-	1971	8-19-71 9-28-71	.85 .48
01095370	Asnebumskit Brook near Holden, Mass.	Lat 42°22'24", long 71°51'14", Worcester County, at culvert on Mills St., 1.5 miles north of Holden Center.	-	1971	8-17-71 9-28-71	2.0 1.9
01095380	Trout Brook near Holden, Mass.	Lat 42°23'00", long 71°50'12", Worcester County, at culvert on Manning St., 2.2 miles north of Holden Center.	6.80	1971	8-26-71 9-27-71 9-29-71	.14 .31 .44
01095410	Malden Brook at Oakdale, Mass.	Lat 42°22'53", long 71°47'45", Worcester County, at culvert on Thomas St., 0.5 mile south of intersection of Thomas St. and State Highway 140.	1.26	1971	8-19-71 9-27-71 9-30-71	.53 .62 .46
01095430	Gates Brook at West Boylston, Mass.	Lat 42°21'29", long 71°46'44", Worcester County, at culvert on State Highway 140, 0.2 mile south of intersection of State Highways 12 and 140.	2.80	1971	8-19-71 9-28-71	.41 .57
01095840	Catacoonamug Brook at Shirley, Mass.	Lat 42°32'38", long 71°39'25", Middlesex County, at culvert on Lancaster Rd., 1 mile above mouth.	19.1	1971	9- 3-71 9- 9-71 9-29-71	5.6 3.7 4.4
01095880	Nonacoicus Brook near Ayer, Mass.	Lat 42°33'43", long 71°36'36", Middlesex County, 200 ft above mouth, 1.2 miles west of Ayer.	18.8	1971	9- 3-71 9- 9-71 9-29-71	1.2 .69 1.7
01095910	Mulpus Brook near Lunenburg, Mass.	Lat 42°35'46", long 71°40'15", Worcester County, at culvert on State Highway 225, 2.2 miles east of Lunenburg.	10.4	1971	9- 3-71 9- 9-71 9-29-71	1.1 1.4 .96
01095915	Mulpus Brook near Shirley, Mass.	Lat 42°34'26", long 71°37'43", Middlesex County, at culvert on State Highway 2A, 2.5 miles northeast of Shirley.	15.7	1971	9- 3-71 9- 9-71 9-29-71	1.1 1.1 1.5
01095930	Willard Brook near West Townsend, Mass.	Lat 42°40'27", long 71°46'14", Middlesex County, at culvert on State Highway 119, 1,500 ft west of intersection of State Highway 119 and Wheeler Rd., 1.5 miles west of West Townsend.	12.3*	1971	9- 4-71 9-27-71	1.4 1.2
01095940	Locke Brook at West Townsend, Mass.	Lat 42°40'42", long 71°45'31", Middlesex County, at culvert on West Meadow Rd., 0.5 mile above mouth.	4.20	1971	9- 4-71	0
01095950	Mason Brook near West Townsend, Mass.	Lat 42°42'05", long 71°45'10", Middlesex County, 2,200 ft south of New Hampshire state line, 2 miles northwest of West Townsend.	9.30	1971	9- 3-71 9-27-71	.05 .19
01095960	Walker Brook near West Townsend, Mass.	Lat 42°42'07", long 71°46'06", Middlesex County, at culvert on State Highway 124, 2 miles northwest of West Townsend.	5.83	1971	9- 3-71 9-27-71	.17 .10

* Adjusted for diversion to North Nashua River basin.

Discharge measurements made at low-flow partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Merrimack River basin--Continued						
01095970	Pearl Hill Brook near West Townsend, Mass.	Lat 42°39'40", long 71°45'13", Middlesex County, 1,800 ft below Pearl Hill Brook Pond, 1.5 miles southwest of West Townsend.	5.95	1971	9- 4-71 9-27-71	0.94 1.0
01095980	Squannacook River at Townsend, Mass.	Lat 42°39'45", long 71°42'33", Middlesex County, at bridge on Elm St., 1,800 ft southwest of intersection of Main St. and Elm St.	51.1*	1971	9- 3-71 9-27-71 9-28-71	7.0 6.7 7.6
01096200	James Brook near Ayer, Mass.	Lat 42°34'46", long 71°35'20", Middlesex County, at culvert on State Highway 111, 1.5 miles north of Ayer.	3.91	1971	9- 3-71 9- 9-71 9-29-71	.05 .08 .24
01096300	Robinson Brook near Pepperell, Mass.	Lat 42°37'52", long 71°36'32", Middlesex County, at culvert on Shirley St., 2.5 miles southwest of Pepperell.	3.09	1971	9- 3-71 9- 9-71 9-28-71	.10 .12 .08
01096502	Nissitissit River near Hollis, N.H.	Lat 42°42'20", long 71°37'18", Hillsborough County, 500 ft above bridge on Pepperell Rd., 3 miles southwest of Hollis.	47.6	1971	9- 3-71 9-27-71	3.7 3.2
01096503	Nissitissit River at Pepperell, Mass.	Lat 42°40'[illegible]9", long 71°34'39", Middlesex County, at bridge on Canal St., 4,000 ft above mouth.	59.6	1971	8-27-71 9-27-71	3.5 4.9
01096504	Reedy Meadow Brook at East Pepperell, Mass.	Lat 42°40'03", long 71°33'55", Middlesex County, at culvert on Lowell Rd., 2,000 ft above mouth.	1.94	1971	8-27-71 9- 9-71 9-29-71	.66 .46 .74
01096505	Unkety Brook near Pepperell, Mass.	Lat 42°41'23", long 71°32'54", Middlesex County, at culvert on River St., 2.5 miles northeast of Pepperell.	6.84	1971	8-27-71 9- 9-71 9-29-71	.93 1.1 1.8
01096510	Merrimack River tributary at Hudson Center, N.H.	Lat 42°46'51", long 71°24'50", Hillsborough County, at culvert on Greeley Rd., 0.8 mile north of Hudson Center.	1.33	1964-65, 1967-68, 1970-71	9-24-71	.26
01096520	Old Maids Brook near Nashua, N.H.	Lat 42°43'13", long 71°28'22", Hillsborough County, at culvert on Browning St., 1.6 miles south of Nashua.	.30	1964-65, 1967-68, 1970-71	9-24-71	.01
01096530	Musquash Brook tributary near Hudson, N.H.	Lat 42°43'14", long 71°23'18", Hillsborough County, at culvert 0.25 mile above mouth and 4 miles southeast of Hudson.	1.50	1964-65, 1967-68, 1970-71	9-24-71	.02
01100510	Providence Hill Brook near Salem, N.H.	Lat 42°49'50", long 71°11'31", Rockingham County, at downstream side of bridge on Sawyer Ave., 3 miles north of Salem.	8.36	1964-65, 1967-68, 1970-71	9-24-71	.14
01100550	Porcupine Brook at Pelham Road, near Salem Depot, N.H.	Lat 42°46'23", long 71°15'24", Rockingham County, at culvert on Pelham Rd., 2.4 miles west of Salem Depot.	1.72	1964-65 1968, 1970-71	9-24-71	0
01100560	Porcupine Brook at Highway 38, near Salem Depot, N.H.	Lat 42°45'57", long 71°14'11", Rockingham County, at culvert on State Highway 38, 1.8 miles southwest of Salem Depot.	5.49	1964-65, 1967-68, 1970-71	9-24-71	0
01100680	Bryant Brook near Plaistow, N.H.	Lat 42°50'49", long 71°06'38", Rockingham County, at culvert on Line Brook Rd., 1.2 miles northwest of Plaistow.	3.96	1964-65, 1967-68, 1970-71	9-24-71	.04
Charles River basin						
01103150	Charles River tributary at Bellingham, Mass.	Lat 42°05'12", long 71°29'25", Norfolk County, at culvert on State Highway 140, 0.8 mile west of Bellingham.	0.63	1968-71	10- 9-70	0.02
01103210	Stall Brook at North Bellingham, Mass.	Lat 42°07'26", long 71°27'20", Norfolk County, at culvert on State Highway 126, 0.2 mile north of North Bellingham.	3.79	1968-71	10- 9-70	.19
01103220	Miscoe Brook near Franklin, Mass.	Lat 42°02'27", long 71°25'38", Norfolk County, at culvert on South St., at south limits of Franklin.	1.15	1968-71	10- 8-70	.10
01103225	Miscoe Brook at Washington St., Franklin, Mass.	Lat 42°03'21", long 71°26'00", Norfolk County, at culvert on Washington St., 2.6 miles southwest of Franklin.	2.14	1968-71	10- 8-70	.12
01103230	Dix Brook near Franklin, Mass.	Lat 42°02'27", long 71°24'39", Norfolk County, at culvert on Vine St., at south limits of Franklin.	.24	1968-71	10- 8-70	.02

* Adjusted for diversion to North Nashua River basin.

Discharge measurements made at low-flow partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		Charles River basin--Continued				
01103250	Chicken Brook at Holliston, Mass.	Lat 42°11'16", long 71°26'21", Middlesex County, at culvert on private road, 400 ft east of State Highway 16 and 1.0 mile southwest of Holliston.	2.12	1968-71	10- 9-70	0.31
01103270	Shepards Brook tributary near Franklin, Mass.	Lat 42°06'48", long 71°23'46", Norfolk County, at more southerly of two culverts on Lincoln St., 2.1 miles north of Franklin.	1.05	1968-71	10- 8-70	.07
01103273	Shepards Brook near Franklin, Mass.	Lat 42°06'55", long 71°23'46", Norfolk County, at more northerly of two culverts on Lincoln St., 2.2 miles north of Franklin.	2.11	1968-71	10- 8-70	.29
01103290	Safe Meadow Brook near Wrentham, Mass.	Lat 42°03'17", long 71°21'51", Norfolk County, at culvert on Whiting St., 2.0 miles southwest of Wrentham.	.74	1968-71	4-23-71	a1.4
01103320	Stop River tributary at Norfolk, Mass.	Lat 42°07'48", long 71°19'12", Norfolk County, at culvert on Boardman St., 0.8 mile northeast of Norfolk.	.78	1968-71	10- 8-70	.17
01103335	Stop River tributary No. 2 near Medfield, Mass.	Lat 42°09'01", long 71°18'24", Norfolk County, at culvert on Indian Hill Rd., 300 ft above mouth and 2.5 miles south of Medfield.	.71	1968-71	10- 8-70	.02
01103370	Jar Brook near Holliston, Mass.	Lat 42°13'46", long 71°26'35", Middlesex County, at culvert on Winter St., 2.1 miles north of Holliston.	.66	1968-71	10- 9-70 4-22-71	.08 a1.1
01103405	Sewall Brook near Sherborn, Mass.	Lat 42°13'22", long 71°21'20", Middlesex County, at culvert on Forest St., 1.5 miles south of Sherborn.	2.68	1968-71	10- 9-70	.25
01103425	Bogle Brook tributary near Weston, Mass.	Lat 42°19'56", long 71°19'35", Middlesex County, at culvert on State Highway 30, at west limits of Weston.	.82	1968-71	10-12-70	.09
01103430	Boulder Brook near Wellesley, Mass.	Lat 42°18'23", long 71°18'52", Norfolk County, at culvert on Weston Rd., at northwest limits of Wellesley.	.87	1968-71	10-12-70	.16
01103440	Fuller Brook at Wellesley, Mass.	Lat 42°17'45", long 71°17'18", Norfolk County, at culvert on Brook St., at Wellesley.	3.94	1959-60, 1968-71	10- 9-70 4-22-71	.63 a5.0
01103450	Trout Brook tributary at Dover, Mass.	Lat 42°14'44", long 71°17'15", Norfolk County, at culvert on Springdale Ave., 0.2 mile west of Dover.	.63	1968-71	10- 9-70	.52
01103455	Trout Brook at Dover, Mass.	Lat 42°15'14", long 71°17'38", Norfolk County, at culvert on Haven St., 0.8 mile northwest of Dover.	3.74	1968-71	10- 9-70	1.4
01103480	Noanet Brook near Dover, Mass.	Lat 42°15'08", long 71°15'48", Norfolk County, at culvert on Dedham St., 1.1 miles northeast of Dover.	1.92	1968-71	10- 9-70	.33
01104050	Sawmill Brook near West Roxbury, Mass.	Lat 42°17'27", long 71°10'28", Suffolk County, at culvert on Baker St., at west limits of Boston, 1.1 miles northwest of West Roxbury.	1.94	1968-71	10- 9-70	.49
01104300	Stony Brook near Weston, Mass.	Lat 42°23'51", long 71°18'07", Middlesex County, at culvert on Merriam St., 2.1 miles north of Weston.	5.84	1968-71	10-12-70	.25
01104350	Cherry Brook near Weston, Mass.	Lat 42°23'20", long 71°17'50", Middlesex County, at culvert on Conant Rd., 1.5 miles north of Weston.	2.15	1968-71	10-12-70	.46
		Weir River basin				
01105630	Crooked Meadow River near Hingham Center, Mass.	Lat 42°12'53", long 70"53'06", Plymouth County, at culvert on Main St., 1.3 miles south of Hingham Center.	5.00	1969-71	10-12-70 7- 9-71	0.85 .51
		North River basin				
01105680	Cushing Brook at West Hanover, Mass.	Lat 42°07'05", long 70°52'48", Plymouth County, at culvert on State Highway 139, at West Hanover.	4.28	1969-71	10-13-70 7- 9-71	0.16 .24
01105700	Indian Head Brook near Hanson, Mass.	Lat 42°05'13", long 70°51'26", Plymouth County, at bridge on Washington St., 0.3 mile above mouth, and 1.5 miles northeast of Hanson.	4.39	1958-60‡, 1965, 1969-71	10-13-70 7- 9-71	.51 .67
01105770	Herring Brook at Pembroke, Mass.	Lat 42°03'43", long 70°48'09", Plymouth County, at culvert on Mountain Ave., 0.7 mile southeast of Pembroke.	5.48	1965, 1969-71	10-13-70 7- 9-71	1.1 .95

‡ Operated as a continuous-record station.
a Not base flow.

Discharge measurements made at low-flow partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
		North River basin--Continued				
01105805	Pudding Brook at North Pembroke, Mass.	Lat 42°05'25", long 70°47'32", Plymouth County, at culvert on State Highway 53 at North Pembroke.	4.53	1969-71	10-12-70	0.96
01105810	Third Herring Brook at Hanover, Mass.	Lat 42°07'01", long 70°48'35", Plymouth County, at culvert on River St., 0.5 mile northeast of Hanover.	9.85	1969-71	10-13-70 7- 9-71	.54 .60
01105820	Second Herring Brook at Norwell, Mass.	Lat 42°09'36", long 70°47'20", Plymouth County, at culvert on State Highway 123, at Norwell.	3.22	1969-71	10-12-70 7- 9-71	.26 2.1
01105830	First Herring Brook near Scituate Center, Mass.	Lat 42°11'30", long 70°46'49", Plymouth County, at culvert on Grove St., 1.2 miles southwest of Scituate Center.	1.72	1969-71	10-12-70 2- 9-71 2-25-71 3-10-71 4- 5-71 5- 5-71 5-14-71 5-17-71 6- 2-71 7- 8-71 8- 9-71 9-16-71	.06 11 8.6 6.1 2.8 5.4 6.5 12 3.6 .04 .04 .01
		South River basin				
01105845	South River at Marshfield, Mass.	Lat 42°05'32", long 70°43'50", Plymouth County, at culvert on Old Ocean St., 0.8 mile west of Marshfield.	7.5	1969-71	10-12-70 7- 9-71	2.6 2.1
		Jones River basin				
01105860	Jones River Brook near Plympton, Mass.	Lat 41°59'18", long 70°48'10", Plymouth County, at culvert on State Highway 106, 2.3 miles north of Plympton.	3.60	1965, 1969-71	10-14-70 7-12-71	1.3 1.0
01105872	Halls Brook at Kingston, Mass.	Lat 41°59'57", long 70°43'56", Plymouth County, 600 ft above culvert on State Highway 3A, 0.4 mile north of Kingston.	4.2	1969-71	10-14-70 7-12-71	1.9 1.8
		Coastal river basins				
01105874	Town Brook at Plymouth, Mass.	Lat 41°57'22", long 70°39'44", Plymouth County, at mouth, at Plymouth.	9.04	1969-71	10-15-70 7-12-71 8-18-71	15 11 12
01105878	Beaver Dam Brook at White Horse Beach, Mass.	Lat 41°55'43", long 70°33'20", Plymouth County, at culvert 800 ft above mouth at White Horse Beach.	5.52	1969-71	10-15-70 5-24-71 7-12-71 8-18-71	20 25 9.6 11

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1971

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Saco River basin					
01064380	East Branch Saco River near Lower Bartlett, N.H.	Lat 44°07'21", long 71°07'50", Carroll County, at bridge on gravel road, 1.7 miles northeast of Lower Bartlett.	32.0	1967-71	5- 4-71	1.65	1,750
		Merrimack River basin					
01074500	East Branch Pemigewasset River near Lincoln, N.H.	Lat 44°03'23", long 71°38'18", Grafton County, at dam of Franconia Paper Company, 0.9 mile below Clear Brook, 1.2 miles below former gaging station, and 1.8 miles northeast of Lincoln.	109	1929-53‡, 1968-71	-	(a)	<2,800
01084500	Beards Brook near Hillsboro, N.H.	Lat 43°06'51", long 71°55'36", Hillsborough County, 300 ft above bridge on State Highway 9, 500 ft above mouth, and 1.5 miles west of Hillsboro.	55.4	1946-70‡, 1971	4-14-71	4.16	850
01089500	Suncook River at North Chichester, N.H.	Lat 43°15'23", long 71°22'10", Merrimack County, 100 ft below bridge on Depot Road at North Chichester and 3.1 miles above Little Suncook River.	157	1918-27‡, 1929-70‡, 1971	4-14-71	b8.12	c1,200
01095200	Houghton Brook near Oakdale, Mass.	Lat 42°24'57", long 71°48'12", Worcester County, at culvert on State Highway 140, 2 miles north of Oakdale.	.69	1964-71	5-13-71	6.36	10
01095800	Easter Brook near North Leominster, Mass.	Lat 42°32'46", long 71°42'45", Worcester County, at culvert on Lancaster Ave., 1.5 miles east of North Leominster.	.92	1964-71	4- 3-71	12.39	16
01097200	Heath Hen Meadow Brook at Stow, Mass.	Lat 42°26'44", long 71°30'02", Middlesex County, at culvert on West Acton Rd., 0.7 mile northeast of Stow.	3.89	1964-71	3-17-71	4.71	35
01097450	Jackstraw Brook at Westborough, Mass.	Lat 42°15'14", long 71°36'14", Worcester County, at culvert on Upton Rd., 1.1 miles southeast of Westborough.	1.11	1964-71	3-17-71	10.79	15
01098700	Hayward Brook at Wayland, Mass.	Lat 42°21'40", long 71°20'51", Middlesex County, at culvert on U.S. Highway 20, 0.7 mile east of Wayland.	2.32	1964-71	3-17-71	6.27	16
01100100	Richardson Brook near Lowell, Mass.	Lat 42°39'48", long 71°16'02", Middlesex County, at culvert on Methuen St., 2 miles northeast of Lowell.	4.32	1963-71	3-17-71	12.66	99
01100800	Cobbler Brook near Merrimac, Mass.	Lat 42°50'55", long 71°01'10", Essex County, at culvert on Highland St., 1.3 miles northwest of Merrimac.	.77	1963-71	7-30-71	8.16	49
		Parker River basin					
01100900	Parker River tributary near Georgetown, Mass.	Lat 42°44'03", long 70°58'22", Essex County, at culvert on North St., 1.2 miles northeast of Georgetown.	0.65	1964-71	3-17-71	10.68	24
		Charles River basin					
01104600	Beaver Brook at Belmont, Mass.	Lat 42°23'26", long 71°11'51", Middlesex County, at culvert on State Highway 60 (Trapelo Rd.), 1 mile southwest of Belmont.	4.09	1963-71	3-17-71	10.43	93
		Neponset River basin					
01104900	Mill Brook at Westwood, Mass.	Lat 42°12'21", long 71°14'26", Norfolk County, at culvert on State Highway 109, at Westwood.	1.52	1964-71	5-17-71	6.03	16
01105550	Plantingfield Brook at Norwood, Mass.	Lat 42°12'17", long 71°11'13", Norfolk County, at culvert on State Highway 1, 1.0 mile northeast of Norwood.	1.52	1964-71	2-14-71	14.10	135

‡ Operated as a continuous-record gaging station.
a Peak stage did not reach bottom of the gage.
b Backwater from ice.
c About.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		South River basin					
01105850	Furnace Brook near Marshfield, Mass.	Lat 42°06'30", long 70°43'53", Plymouth County, at culvert on Furnace St., 1.7 miles northwest of Marshfield.	1.61	1964-71	5-17-71	9.40	54
		East Branch Westport River basin					
01105950	Kirby Brook near Head of Westport, Mass.	Lat 41°36'02", long 71°04'25", Bristol County, at culvert on Drift Rd., 1.5 miles south of Head of Westport.	3.69	1964-71	2-14-71	8.35	68
		Cold Brook basin					
01106100	Cold Brook near Adamsville, R.I.	Lat 41°32'37", long 71°09'05", Newport County, at culvert on Cold Brook Rd., 1.3 miles southwest of Adamsville.	1.15	1966-71	2-14-71	8.10	29
		Taunton River basin					
01106485	Meadow Brook tributary near Whitman, Mass.	Lat 42°04'11", long 70°57'34", Plymouth County, at culvert on Auburn St., 1.3 miles southwest of Whitman.	1.04	1967-71	2-14-71	9.22	38
01108100	Snows Brook near Bridgewater, Mass.	Lat 41°56'53", long 70°59'37", Plymouth County, at culvert on Cross St., 3 miles south of Bridgewater.	1.41	1964-71	2-14-71	c7.6	54
01109050	Threemile River tributary near Oakland, Mass.	Lat 41°55'38", long 71°09'17", Bristol County, at culvert on State Highway 140, 1.3 miles northwest of Oakland.	.50	1964-71	2-14-71	6.52	13
01109075	Holloway Brook near Myricks, Mass.	Lat 41°49'34", long 70°59'25", Plymouth County, at culvert on Pickens St., 2.0 miles east of Myricks.	1.16	1967-71	2-14-71	6.45	32
01109085	Quaker Brook near Myricks, Mass.	Lat 41°49'29", long 71°03'18", Bristol County, at culvert on Bryant St., 1.5 miles southwest of Myricks.	1.94	1967-71	2-14-71	9.34	117
01109100	Taunton River tributary near Fall River, Mass.	Lat 41°45'31", long 71°07'01", Bristol County, at culvert on State Highway 79, 4 miles northeast of Fall River.	.25	1964-71	8-27-71	11.24	54
		Runnins River basin					
01109270	Runnins River at Seekonk, Mass.	Lat 41°49'25", long 71°20'00", Bristol County, at culvert on Pleasant St., 1.0 mile north of Seekonk.	4.24	1967-71	2-14-71	6.51	94
		Metacomet Brook basin					
01109300	Metacomet Brook at East Providence, R.I.	Lat 41°48'19", long 71°22'25", Providence County, at culvert on South Broadway at East Providence.	0.82	1966-71	7-19-71	10.72	94
		Blackstone River basin					
01111250	Dry Arm Brook near Wallum Lake, R.I.	Lat 41°58'22", long 71°45'03", Providence County, at culvert on State Highway 100, 1.8 miles south of Wallum Lake.	1.74	1966-71	2-27-71	7.11	20
01111450	Mowry Paine Brook near Chepachet, R.I.	Lat 41°55'19", long 71°37'26", Providence County, at culvert on Cooper Rd., 2.5 miles northeast of Chepachet.	1.87	1966-71	2-27-71	5.71	35
01112300	Bungay Brook near Sheldonville, Mass.	Lat 42°01'29", long 71°27'24", Bristol County, at culvert on Wrentham St., 3.5 miles west of Sheldonville.	2.66	1964-71	2-14-71	6.66	48
01113600	Blackstone River tributary No. 2 at Berkeley, R.I.	Lat 41°55'27", long 71°24'49", Providence County, at culvert on State Highway 122, 0.5 mile southeast of Berkeley.	1.04	1966-71	10-23-70	6.53	47
		Pawtuxet River basin					
01115200	Shippee Brook tributary at North Foster, R.I.	Lat 41°49'53", long 71°45'10", Providence County, at culvert on Willoughby Young Rd., at North Foster.	0.55	1966-71	11- 3-70	10.43	55
01115300	Wilbur Hollow Brook near Clayville, R.I.	Lat 41°46'06", long 71°38'03", Providence County, at culvert on State Highway 12, 2.3 miles east of Clayville.	4.61	1966-71	2- 8-71	11.44	80
01115830	Bear Brook near Coventry, R.I.	Lat 41°39'37", long 71°37'42", Kent County, at culvert on Fish Hill Rd., 3 miles south of Coventry.	3.98	1966-71	2-14-71	7.52	62
01116600	Pocasset River near North Scituate, R.I.	Lat 41°50'13", long 71°31'49", Providence County, at culvert on Belfield Drive, 3 miles east of North Scituate.	1.34	1966-71	2-14-71	7.46	12

c About.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Hardig Brook basin							
01116650	Hardig Brook near West Warwick, R.I.	Lat 41°41'38", long 71°28'52", Providence County, at culvert on Hardig Rd., 2.5 miles southeast of West Warwick.	3.16	1966-71	2-14-71	4.33	152
Potowomut River basin							
01116870	Frenchtown Brook near Davisville, R.I.	Lat 41°37'47", long 71°30'51", Providence County, at culvert on Tillinghast Rd., 2.3 miles northwest of Davisville.	3.12	1966-71	2-14-71	4.06	39
Smelt Brook basin							
01117250	Browns Brook at Wakefield, R.I.	Lat 41°25'56", long 71°31'24", Washington County, at culvert on Tuckertown Rd., 1 mile southwest of Wakefield.	0.50	1966-71	2-27-71	10.68	20
Pawcatuck River basin							
01117400	Glen Rock Brook tributary at Usquepaug, R.I.	Lat 41°31'04", long 71°36'18", Washington County, at culvert on Glen Rock Rd., 1 mile north of Usquepaug.	1.04	1966-71	2-27-71	4.51	32
01117820	Wood River tributary near Arcadia, R.I.	Lat 41°34'32", long 71°42'52", Washington County, at culvert on State Highway 165, 1.8 miles northwest of Arcadia.	.77	1966-71	2-14-71	7.88	8
01118020	Perry Healy Brook near Bradford, R.I.	Lat 41°22'41", long 71°43'42", Washington County, at culvert on State Highway 216, 2 miles southeast of Bradford.	1.82	1966-71	11- 3-70	6.99	16
Thames River basin							
01123160	Wales Brook tributary near Wales, Mass.	Lat 42°04'48", long 72°11'51", Hampden County, at culvert on Holland Rd., 1.5 miles northeast of Wales.	0.71	1964-71	7-31-71	8.09	29
01124050	Tufts Branch at Dudley, Mass.	Lat 42°03'11", long 71°56'22", Worcester County, at culvert on Dudley-Southbridge Rd., 0.7 mile northwest of Dudley.	1.06	1963-71	3-16-71	9.83	24
Connecticut River basin							
01129400	Black Brook at Averill, Vt.	Lat 45°00'14", long 71°41'34", Essex County, at culvert on State Highway 114, 1 mile northeast of Averill.	0.58	1964-71	8-28-71	11.10	22
01129700	Paul Stream tributary near Brunswick, Vt.	Lat 44°41'06", long 71°37'18", Essex County, at culvert on macadam road leading to Maidstone Lake, 3.5 miles south of Brunswick.	1.29	1966-71	8- 3-71	8.36	37
01133200	Quimby Brook near Lyndonville, Vt.	Lat 44°34'52", long 71°59'11", Caledonia County, at culvert on dirt road, 3.5 miles north of Lyndonville.	2.32	1964-71	8- 3-71	12.73	75
01133300	Cold Hill Brook near Lyndon, Vt.	Lat 44°31'47", long 72°03'01", Caledonia County, at culvert on dirt road, 2 miles northwest of Lyndon.	1.52	1964-71	8- 3-71	11.96	78
01135700	Joes Brook tributary near East Barnet, Vt.	Lat 44°20'40", long 72°03'52", Caledonia County, at culvert on dirt road, 1.8 miles northwest of East Barnet.	.76	1964-71	5- 3-71	10.27	18
01138800	Keenan Brook at Groton, Vt.	Lat 44°12'10", long 72°12'05", Caledonia County, at culvert on macadam road, 0.6 mile south of Groton.	4.26	1964-71	5- 4-71	13.61	132
01139700	Waits River tributary near West Topsham, Vt.	Lat 44°08'29", long 72°18'52", Orange County, at culvert on U.S. Highway 302, 2 miles north of West Topsham.	1.09	1964-71	5- 4-71	10.22	63
01140100	South Branch Waits River tributary near Bradford Center, Vt.	Lat 44°01'14", long 72°12'14", Orange County, at culvert on macadam road, 2 miles northwest of Bradford Center.	.27	1964-71	5- 4-71	10.48	5
01140800	West Branch Ompompanoosuc River tributary at South Strafford, Vt.	Lat 43°49'56", long 72°22'20", Orange County, at culvert on dirt road at South Strafford.	1.33	1964-71	5- 4-71	10.90	70
01142400	Third Branch White River tributary at Randolph, Vt.	Lat 43°55'54", long 72°40'58", Orange County, at culvert on State Highway 12A, 1 mile northwest of Randolph.	.77	1964-71	4-21-71	10.59	41
01151200	Ottauquechee River tributary near Quechee, Vt.	Lat 43°39'37", long 72°25'55", Windsor County, at culvert on Quechee Rd., 1.2 miles northwest of Quechee.	.82	1964-71	8-28-71	10.21	25

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Connecticut River basin--Continued					
01153300	Middle Branch Williams River tributary at Chester, Vt.	Lat 43°16'13", long 72°36'32", Windsor County, at culvert on macadam road at Chester.	3.16	1964-71	4-21-71	18.58	106
01153800	Bull Creek tributary near Athens, Vt.	Lat 43°06'08", long 72°34'55", Windham County, at culvert on gravel road, 2 miles southwest of Athens.	.60	1967-71	4-21-71	10.53	15
01155350	West River tributary near Jamaica, Vt.	Lat 43°07'32", long 72°48'47", Windham County, at culvert on State Highway 100, 2.5 miles northwest of Jamaica.	.90	1964-71	4-21-71	8.23	25
01156300	Whetstone Brook tributary near Marlboro, Vt.	Lat 42°52'42", long 72°42'30", Windham County, at culvert on State Highway 9, 1.5 miles northeast of Marlboro.	1.05	1963-71	8-28-71	5.63	117
01156450	Connecticut River tributary near Vernon, Vt.	Lat 42°47'01", long 72°31'57", Windham County, at culvert on macadam road, 1.5 miles northwest of Vernon.	1.12	1964-71	8-28-71	7.63	27
01161300	Millers Brook at Northfield, Mass.	Lat 42°41'07", long 72°27'11", Franklin County, at culvert on Beers Plain Rd., 0.8 mile south of Northfield.	2.33	1964-71	8-28-71	15.22	54
01163100	Wilder Brook near Gardner, Mass.	Lat 42°35'42", long 72°00'53", Worcester County, at culvert on Clark St., 1.5 miles northwest of Gardner.	2.50	1964-71	4- 3-71	11.56	38
01170200	Allen Brook near Shelburne Falls, Mass.	Lat 42°36'46", long 72°40'02", Franklin County, at culvert on Peckville Rd., 3.5 miles east of Shelburne Falls.	.73	1964-71	8-28-71	5.73	17
01170900	Mill River near South Deerfield, Mass.	Lat 42°28'09", long 72°38'31", Franklin County, at culvert on North St., 2 miles southwest of South Deerfield.	6.37	1963-71	4-13-71	10.82	144
01171200	Scarboro Brook at Dwight, Mass.	Lat 42°19'44", long 72°26'47", Hampshire County, at culvert on State Highway 9, at Dwight.	2.92	1963-66, 1968-71	4- 3-71	c13.74	c38
01171910	Broad Brook near Holyoke, Mass.	Lat 42°11'59", long 72°41'11", Hampden County, at culvert on Keys Rd., 3.5 miles west of Holyoke.	2.26	1965-71	4- 3-71	17.37	88
01173040	Pleasant Brook near Barre, Mass.	Lat 42°25'44", long 72°04'35", Worcester County, at culvert on State Highway 62, 1.5 miles east of Barre.	1.11	1965-71	4- 3-71	6.32	32
01173330	Fish Brook near Gilbertville, Mass.	Lat 42°19'24", long 72°11'11", Worcester County, at culvert on Goddard Rd., 1.2 miles northwest of Gilbertville.	1.01	1964-71	2-15-71	13.17	25
01173900	Middle Branch Swift River at North New Salem, Mass.	Lat 42°32'45", long 72°19'10", Franklin County, at culvert on Elm St., at North New Salem.	4.73	1964-71	4- 3-71	6.90	49
01175600	Caruth Brook near Paxton, Mass.	Lat 42°19'00", long 71°58'16", Worcester County, at culvert on Spring St., 2.2 miles west of Paxton.	2.35	1964-71	4- 3-71	7.64	58
01176450	Roaring Brook near Belchertown, Mass.	Lat 42°14'07", long 72°24'18", Hampshire County, at culvert on State Highway 21, 4 miles south of Belchertown.	2.77	1963-71	2-15-71	11.66	103
01178230	Mill Brook at Plainfield, Mass.	Lat 42°30'57", long 72°55'30", Hampshire County, at culvert on High St., 0.4 mile west of Plainfield.	4.47	1964-71	8-28-71	14.54	200
01180100	Fuller Brook near Peru, Mass.	Lat 42°25'59", long 73°01'19", Hampshire County, at culvert on State Highway 143, 1.3 miles southeast of Peru.	2.07	1967-71	8-28-71	16.50	133
01183100	Seymour Brook tributary at Granville, Mass.	Lat 42°03'53", long 72°51'42", Hampden County, at culvert on State Highway 189 at Granville.	.66	1964-71	7-17-71	c9.8	8
01183810	Longmeadow Brook at Pondside Rd., near Longmeadow, Mass.	Lat 42°02'22", long 72°35'32", Hampden County, at culvert on Pondside Rd., 2 miles southwest of Longmeadow.	4.15	1967-71	5-26-67 3-18-68 d7-29-69 7-17-71	3.35 3.72 3.98 3.74	d45 d52 d66 49
01184900	Haley Pond Outlet (tributary to Big Pond) near Otis, Mass.	Lat 42°12'15", long 73°01'56", Berkshire County, at culvert on Algerie Rd., 3 miles northeast of Otis.	.27	1964-71	5-13-71	10.70	15

c About.
d Revised.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Housatonic River basin					
01196990	Windsor Brook tributary at Windsor, Mass.	Lat 42°30'41", long 73°04'37", Berkshire County, at culvert on State Highway 9, 0.9 mile west of Windsor.	0.29	1964-71	4-13-71	10.33	18
01197050	Churchill Brook at Pittsfield, Mass.	Lat 42°29'28", long 73°16'56", Berkshire County, at culvert on Churchill St., at north limits of Pittsfield.	1.16	1964-71	8-28-71	9.87	26
01197155	Housatonic River tributary No. 2 at Lee, Mass.	Lat 42°18'21", long 73°13'49", Berkshire County, at culvert on East St., 1.0 mile east of Lee.	.73	1965-71	8-28-71	5.45	18
01197550	Housatonic River tributary at Risingdale, Mass.	Lat 42°13'57", long 73°20'47", Berkshire County, at culvert on State Highway 183, 0.7 mile southeast of Risingdale.	.69	1963-71	8-28-71	15.59	17
		Hudson River basin					
01328900	Tanner Brook near Sunderland, Vt.	Lat 43°07'52", long 73°05'45", Bennington County, at culvert on U.S. Highway 7, 1.3 miles north of Sunderland.	2.60	1964-71	8-28-71	10.42	30
01333800	South Stream near Bennington, Vt.	Lat 42°49'53", long 73°10'04", Bennington County, at culvert on South Stream Rd., 3.5 miles southeast of Bennington.	7.70	1963-71	8-28-71	9.77	75
01333900	Paran Creek near South Shaftsbury, Vt.	Lat 42°58'13", long 73°11'19", Bennington County, at culvert on dirt road, 2 miles northeast of South Shaftsbury.	2.38	1964-71	8-28-71	6.96	39
		St. Lawrence River basin					
04279400	Poultney River tributary at East Poultney, Vt.	Lat 43°32'17", long 73°12'36", Rutland County, at culvert 1.0 mile north of East Poultney.	1.13	1964-71	8-28-71	10.55	43
04280200	Mettawee River tributary No. 2 at East Rupert, Vt.	Lat 43°16'16", long 73°07'23", Bennington County, at culvert on State Highway 30, at East Rupert.	1.86	1963-71	4- 6-71	13.41	59
04280900	Moon Brook at Rutland, Vt.	Lat 43°36'33", long 72°57'25", Rutland County, at culvert on macadam road, 1.0 mile east of Rutland.	2.12	1964-71	7-19-71	10.31	44
04282200	Neshobe River at Brandon, Vt.	Lat 43°48'37", long 73°04'36", Rutland County, at bridge on dirt road, 1.0 mile northeast of Brandon.	20.1	1968-71	8-28-71	7.43	563
04282300	Brandy Brook at Bread Loaf, Vt.	Lat 43°57'19", long 72°59'49", Addison County, at culvert on State Highway 125, at Bread Loaf, and 2 miles east of Ripton.	2.24	1963-71	8-28-71	12.03	120
04282550	Beaver Brook at Cornwall, Vt.	Lat 43°57'29", long 73°12'51", Addison County, at culvert on State Highway 74, at Cornwall.	1.11	1964-71	4-21-71	10.41	51
04282600	Little Otter Creek tributary near Bristol, Vt.	Lat 44°08'44", long 73°07'05", Addison County, at culvert on dirt road, 2 miles northwest of Bristol.	1.48	1964-71	8-28-71	12.60	52
04282750	Lewis Creek tributary No. 2 near Rockville, Vt.	Lat 44°15'54", long 73°04'02", Addison County, at culvert on State Highway 116, 1.3 miles north of Rockville.	1.07	1964-71	8-28-71	11.80	35
04282850	Winooski River tributary No. 2 near Cabot, Vt.	Lat 44°25'53", long 72°18'09", Washington County, at culvert on macadam road, 2 miles north of Cabot.	1.10	1964-71	8-28-71	10.99	18
04284300	Stevens Branch tributary at South Barre, Vt.	Lat 44°10'51", long 72°31'11", Washington County, at culvert on dirt road, 0.7 mile west of South Barre.	.39	1964-71	8-28-71	10.22	10
04288400	Bryant Brook at Waterbury Center, Vt.	Lat 44°22'41", long 72°43'29", Washington County, at culvert on State Highway 100, at Waterbury Center.	2.64	1964-71	8-28-71	11.98	146
04289600	Winooski River tributary near Richmond, Vt.	Lat 44°26'09", long 72°58'46", Chittenden County, at culvert on macadam road, 2 miles north of Richmond.	.71	1964-71	5- 4-71	11.46	31
04290700	Bailey Brook at East Hardwick, Vt.	Lat 44°31'41", long 72°18'16", Caledonia County, at culvert on macadam road, 0.5 mile northeast of East Hardwick.	2.52	1964-71	8-28-71	11.88	99
04292150	Gihon River tributary near Johnson, Vt.	Lat 44°39'36", long 72°37'44", Lamoille County, at culvert on State Highway 100 C, 3 miles northeast of Johnson.	.31	1964-71	7- 1-71	10.71	40

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		St. Lawrence River basin--Continued					
04292200	Lamoille River tributary at Jeffersonville, Vt.	Lat 44°39'13", long 72°49'42", Lamoille County, at culvert on State Highway 108, at Jeffersonville.	0.58	1964-71	8-28-71	11.65	42
04293400	Whittaker Brook at Richford, Vt.	Lat 44°59'14", long 72°39'13", Franklin County, at culvert on State Highway 105, 1 mile east of Richford.	.64	1963-71	8-28-71	10.63	99
04293800	Missisquoi River tributary at Sheldon Junction, Vt.	Lat 44°54'01", long 72°57'35", Franklin County, at culvert on State Highway 105, at Sheldon Junction.	1.69	1963-71	8-28-71	12.55	52
04294200	Saxe Brook near Highgate Springs, Vt.	Lat 44°59'38", long 73°03'59", Franklin County, at culvert on dirt road, 2.5 miles northeast of Highgate Springs.	2.79	1963-71	4-13-71	11.07	24
04295900	Ware Brook near Coventry, Vt.	Lat 44°51'02", long 72°17'33", Orleans County, at culvert on dirt road, 2 miles southwest of Coventry.	2.87	1963-71	8-28-71	14.28	145
04296150	Lord Brook near Evansville, Vt.	Lat 44°46'59", long 72°07'08", Orleans County, at culvert on State Highway 16, 1.5 miles south of Evansville.	4.76	1964-71	5- 7-71	11.68	123
04296300	Pherrins River tributary near Island Pond, Vt.	Lat 44°50'33", long 71°54'32", Essex County, at culvert on State Highway 114, 2.3 miles northwest of Island Pond.	1.05	1964-71	5- 7-71	10.55	45

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*).

Discharge measurements made at miscellaneous sites during water year 1971

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 1		Ipswich River basin				
Ipswich River	Atlantic Ocean	Lat 42°32'30", long 71°10'56", Middlesex County, at culvert on Burlington Ave., 0.6 mile west of Wilmington, Mass.	-	1970	10-13-70 5-25-71	0.04 1.8
Ipswich River	do	Lat 42°33'10", long 71°09'25", Middlesex County, at culvert on Wildwood St., 1.0 mile northeast of Wilmington, Mass.	-	1970	10-13-70 5-25-71	1.2 13
Lubber Brook	Ipswich River	Lat 42°33'50", long 71°11'05", Middlesex County, at culvert on Main St., 1.4 miles north of Wilmington, Mass.	-	1970	10-13-70 5-25-71	.17 4.7
Lubber Brook	do	Lat 42°33'32", long 71°08'49", Middlesex County, at dual culverts on Concord Rd., 1.7 miles northeast of Wilmington, Mass.	-	1970	10-13-70 5-25-71	.52 11
Ipswich River	Atlantic Ocean	Lat 42°33'13", long 71°08'39", Middlesex County, at culvert on Woburn St., 1.6 miles east of Wilmington, Mass.	-	1970	10-13-70 5-25-71	2.0 24
Bear Meadow Brook	Ipswich River	Lat 42°33'30", long 71°05'39", Middlesex County, at culvert on Haverhill St., 1.3 miles southwest of North Reading, Mass.	-	-	5-25-71	6.5
Skug River (head of Martins Brook)	do	Lat 42°35'57", long 71°06'38", Middlesex County, at culvert on Central St., 0.8 mile above Martins Pond and 2.3 miles northwest of North Reading, Mass.	-	1970	5-25-71	11
Martins Brook	do	Lat 42°34'15", long 71°06'05", Middlesex County, at bridge on Park St., 1.2 miles west of North Reading, Mass.	-	1970	10-13-70 5-25-71	4.2 30
Ipswich River	Atlantic Ocean	Lat 42°34'20", long 71°05'25", Middlesex County, at bridge on Central St., 0.6 mile west of North Reading, Mass.	-	1970	10-13-70 5-25-71	6.0 75
Ipswich River tributary	Ipswich River	Lat 42°34'38", long 71°04'18", Middlesex County, at culvert on Willow St., 1.2 miles below Eisenhoures Pond and 0.4 mile east of North Reading, Mass.	-	1970	5-26-71	3.3
Wills Brook	do	Lat 42°34'13", long 71°02'57", Essex County, at culvert on old railroad grade near city of Lynn pumping station, 1.5 miles east of North Reading, Mass.	-	-	5-26-71	3.6
Boston Brook	do	Lat 42°38'29", long 71°03'18", Essex County, at culvert on Essex Rd., 4.0 miles northwest of Middleton, Mass.	-	1970	5-26-71	12
Boston Brook	do	Lat 42°37'15", long 71°01'14", Essex County, at bridge on Liberty Rd., 200 ft above pond and 1.9 miles north of Middleton, Mass.	-	1970	5-26-71	20
Fish Brook	do	Lat 42°38'04", long 70°58'31", Essex County, at bridge on River Rd., 1.2 miles west of Topsfield, Mass.	-	1970	5-24-71	42
Pye Brook (head of Howlett Brook)	do	Lat 42°39'17", long 70°57'12", Essex County, at bridge on Haverhill St., 1.2 miles north of Topsfield, Mass.	-	1970	5-24-71	23
Howlett Brook	do	Lat 42°39'[illegible]7", long 70°55'03", Essex County, at culvert on Ipswich Rd., 2.0 miles northeast of Topsfield, Mass.	-	1970	5-24-71	35
Miles River	do	Lat 42°36'58", long 70°51'09", Essex County, at culvert on Bridge St., 0.3 mile east of Hamilton, Mass.	-	-	5-24-71	19
Miles River	do	Lat 42°39'28", long 70°50'37", Essex County, at bridge on Main St., 1.6 miles south of Ipswich, Mass.	-	1970	5-24-71	35

Discharge measurements made at miscellaneous sites during water year 1971--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Charles River basin						
Beaver Brook	Hopping Brook	Lat 42°10'48", long 71°28'46", Middlesex County, at culvert on Marshall St., 2.9 miles southwest of Holliston, Mass.	1.98	1968-70	10-12-70 4-23-71	*0.07 3.9
Hopping Brook	Charles River	Lat 42°08'31", long 71°27'21", Norfolk County, at culvert on West St., 1.2 miles west of West Medway, Mass.	10.0	1968-70	4-22-71	20
Chicken Brook	do	Lat 42°08'27", long 71°25'26", Norfolk County, at culvert on Cottege St., 0.5 mile southeast of West Medway, Mass.	7.19	1968-69	10-12-70	.71
Charles River	Boston Harbor (Atlantic Ocean)	Lat 42°08'12", long 71°25'08", Norfolk County, at bridge on Shaw St., at south limits of West Medway, Mass.	60.1	1968-70	4-22-71	113
Mill River	Charles River	Lat 42°07'21", long 71°21'59", Norfolk County, at bridge on Miller St., 0.9 mile above mouth and 2.1 miles west of Norfolk, Mass.	13.8	1968-69	10- 8-70 4-22-71	4.2 26
Stop River	do	Lat 42°09'03", long 71°18'18", Norfolk County, at culvert on South St., 2.5 miles south of Medfield, Mass.	12.8	1967-70	10-12-70	3.8
Vine Brook	do	Lat 42°11'16", long 71°18'26", at culvert on State Highway 27, at Medfield, Mass.	.94	1968-69	10- 8-70	.35
Bogastow Brook	do	Lat 42°11'01", long 71°23'27", Norfolk County, at culvert on Orchard St., 1.9 miles northwest of Millis, Mass.	13.1	1968-70	4-23-71	22
Hobbs Brook	Stony Brook	Lat 42°26'17", long 71°16'51", Middlesex County, at abandoned road, 750 ft north of Concord Turnpike, 0.6 mile above Cambridge Reservoir, 1.5 miles northeast of Lincoln, Mass.	1.31	1969-70	10-12-70 4-22-71	.03 2.2
Weir River basin						
Accord Brook	Weir River	Lat 42°12'14", long 70°51'49", Plymouth County, 0.9 mile downstream from Prospect Street Bridge and 3 miles southeast of Hingham, Mass.	3.68	1970 [a]	7-20-70 7-30-70 8-25-70 9- 9-70 10- 8-70 10-26-70 11- 6-70 1-11-71 2-11-71 3-18-71 4- 5-71 5- 5-71 5-17-71 6-14-71 7- 8-71 8- 9-71 9-16-71	0.70 2.3 1.1 .11 .19 2.5 7.5 4.7 7.4 13 5.7 12 18 8.3 .15 .05 .06
Weir River	Massachusetts Bay (Atlantic Ocean)	Lat 42°14'31", long 70°51'36", Plymouth County, at culvert on macadam road, 0.3 mile above Foundry Pond and 1.5 miles east of Hingham, Mass.	14.6	1969-70	10-12-70 7- 9-71	1.1 .82
North River basin						
French Stream	Drinkwater River	Lat 42°06'33", long 70°54'35", Plymouth County, at culvert on Summer St., 1.3 miles south of Rockland, Mass.	4.99	1969-70	10-13-70	1.5
South River basin						
Furnace Brook	South River	Lat 42°07'06", long 70°44'34", Plymouth County, at School Street Bridge, 2.5 miles northwest of Marshfield, Mass.	.94	1970	10-12-70	.04
Coastal river basins						
Herring River	Cape Cod Canal	Lat 41°46'21", long 70°33'46", Barnstable County, at mouth, at Bournedale, Mass.	7.74	1969-70	10-15-70 5-24-71 7-12-71 8-18-71	5.0 27 4.2 4.9
Red Brook	Buttermilk Bay (Buzzards Bay)	Lat 41°45'48", long 70°37'59", Plymouth County, at culvert on Red Brook Road, 1.5 miles northwest of Buzzards Bay, Mass.	9.83	1969-70	10-15-70 5-24-71 7-19-71 8-18-71	6.1 6.4 4.9 4.8

[a] Discharge measurements not previously published.

Discharge measurements made at miscellaneous sites during water year 1971--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Coastal river basins--Continued						
Agawam River	Wareham River (Buzzards Bay)	Lat 41°50'44", long 70°37'12", Plymouth County, at culvert 600 ft below outlet of Halfway Pond, 4 miles west of Ellisville, Mass.	6.71	1969-70	10-14-70 5-24-71 7-12-71 8-18-71	11 13 10 9.4
Agawam River	do	Lat 41°45'40", long 70°40'40", Plymouth County, at culvert 800 ft below Mill Pond, at East Wareham, Mass.	17.1	1969-70	10-15-70 8-18-71	31 24
Wankinco River	do	Lat 41°45'58", long 70°43'20", Plymouth County, 1,000 ft below Parker Mills Pond at Wareham, Mass.	20.5	1969-70	10-15-70 5-24-71 8-18-71	18 11 14
Blackstone River basin						
Millers River	Abbot Run	Lat 41°55'38", long 71°23'07", Providence County, at culvert on Curran Road in Cumberland, R.I., 0.5 mile above mouth, 1.5 miles north of Valley Falls.	-	-	10- 1-70 6-22-71	0.12 .43
Connecticut River basin						
Beaver Brook	Ashuelot River	Lat 42°56'21", long 72°16'24", Cheshire County, at bridge on cemetery road in Keene, N.H.	-	-	11- 3-70 4- 8-71 4-14-71	1.4 36 80
Mountain Brook	Ashuelot River	Lat 42°42'40", long 72°21'23", Franklin County, at culvert on State Highway 78, 2.1 miles north of Warwick, Mass.	-	-	9-21-71	3.3
Dry Brook	Connecticut River	Lat 42°38'31", long 72°29'53", Franklin County, at culvert on Main Road, 0.1 mile northeast of Gill, Mass.	-	-	9-21-71	2.1
Fourmile Brook	do	Lat 42°37'13", long 72°28'15", Franklin County, at culvert on State Highway 63, at south limits of Northfield, Mass.	-	-	9-21-71	2.1
Couch Brook	Falls River	Lat 42°42'15", long 72°33'54", Franklin County, at culvert on State Highway 5, 1.2 miles south of North Bernardston, Mass.	-	-	9-21-71	.94
Falls River	Connecticut River	Lat 42°41'15", long 72°32'43", Franklin County, at bridge on Burke Falls Road, 1.0 mile northeast of Bernardston, Mass.	-	-	9-21-71	5.7
Red Brook	Sawmill River	Lat 42°30'15", long 72°26'52", Franklin County, at culvert on Lake View Road, 2.3 miles east of North Leverett, Mass.	-	-	9-22-71	.69
Long Plain Brook	Connecticut River	Lat 42°27'28", long 72°31'23", Franklin County, at culvert on Central Vermont Railroad, 200 ft west of State Highway 63, 1.2 miles northwest of Leverett, Mass.	-	-	9-22-71	.48
Roaring Brook	do	Lat 42°26'18", long 72°28'59", Franklin County, at culvert on Cushman Road, at East Leverett, Mass.	-	-	9-22-71	3.6
Roaring Brook	Mill River	Lat 42°28'19", long 72°40'21", Franklin County, at culvert on Roaring Brook Road, 2.9 miles southeast of Conway, Mass.	-	-	9-24-71	.93
Scarboro Brook b/	Hop Brook	Lat 42°19'44", long 72°26'47", Hampshire County, at culvert on State Highway 9, at Dwight, Mass.	2.92	1965	9-24-71	.96
Hop Brook tributary	do	Lat 42°19'44", long 72"27'47", Hampshire County, at culvert on Warren Wright Street, 0.7 mile west of Dwight, Mass.	-	-	9-24-71	.18
Hop Brook	Fort River	Lat 42°20'31", long 72°29'38", Hampshire County, at culvert on Station Road, 0.5 mile east of South Amherst, Mass.	-	-	9-24-71	4.9
East Branch Mill River tributary	East Branch Mill River	Lat 42°23'59", long 72°43'57", Hampshire County, 100 feet north of Bullard Street, 55 feet above mouth, 0.5 mile north of Williamsburg, Mass.	-	-	9-23-71	0.21
East Branch Mill River	Mill River	Lat 42°23'58", long 72°43'55", Hampshire County, at bridge on Bullard Street, 0.5 mile north of Williamsburg, Mass.	-	-	9-23-71	2.9

b Also a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1971--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Connecticut River basin--Continued				
Roberts Meadow Brook	do	Lat 42°20'13", long 72°45'14", Hampshire County, at bridge on North Road, 2.5 miles northeast of Westhampton, Mass.	-	-	9-23-71	2.1
North Branch Manhan River tributary	Manhan River	Lat 42°15'49", long 72°44'12", Hampshire County, at culvert on Lead Mine Road, 2.4 miles north of Southampton, Mass.	-	-	9-22-71	.22
Manhan River	Connecticut River	Lat 42°15'59", long 72°41'31", Hampshire County, at bridge on Loudville Road, 1.0 mile west of Easthampton, Mass.	-	-	9-23-71	28
Broad Brook	Manhan River	Lat 42°11'36", long 72°40'31", Hampden County, at culvert on Rock Valley Street, 2.8 miles west of Holyoke, Mass.	1.44	1957-58	9-20-71	.63
Bachelor Brook	Manhan River	Lat 42°16'12", long 72°35'14", Hampshire County at bridge on State Highway 47, 1.0 mile northwest of South Hadley, Mass., and 1.0 mile above mouth.	31.1	1955†, 1965	9-22-71	66
Muddy Brook	Stony Brook	Lat 42°13'51", long 72°30'53", Hampshire County, at twin culverts on Truby Street, 1.8 miles south of Granby, Mass.	-	-	9-22-71	1.4
North Branch Mill River	Mill River	Lat 42°07'02", long 72°28'18", Hampden County, at culvert on Springfield Street, 2.1 miles west of Wilbraham, Mass.	7.61	1957-58	9-20-71	3.3
Pecousic Brook	Connecticut River	Lat 42°03'56", long 72°32'24", Hampden County, at culvert on Dwight Road, at south limits of Springfield, Mass.	-	-	9-20-71	2.3
Still Brook	Muddy Brook	Lat 42°02'31", long 72°41'00", at bridge on State Highway 187, 3 miles southwest of West Agawam, Mass.	5.33	1957-58, 1962-65	9-20-71	2.0
Part 4		St. Lawrence River basin				
Poultney River	Lake Champlain	Lat 43°34'02", long 73°15'48", Washington County, at bridge on new State Highway 22A, and 1.5 miles northwest of Hampton, N.Y.	-	-	4- 6-71	401

† Peak flow.

PART 2. WATER QUALITY RECORDS

MERRIMACK RIVER BASIN

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.

LOCATION.--Lat 42°28'47", long 71°41'04", Worcester County, multiple-parameter monitor on right bank 600 ft downstream from bridge at Ponakin Mill, 0.6 mile upstream from Ponakin Brook, 0.9 mile northwest of North Village, and 5 miles downstream from gaging station near North Leominster.

DRAINAGE AREA.--124 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1971.
Water temperatures: October 1968 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 537 micromhos Feb. 10; minimum, 105 micromhos Apr. 14.
pH: Maximum, 7.8 Feb. 24; minimum, 5.6 May 10.
Dissolved oxygen: Maximum, 14.8 mg/l Mar. 6; minimum, 0.0 mg/l June 22.
Water temperatures: Maximum, 28.0° C June 26, July 1; minimum, freezing point several days during winter period.

Period of record:
Specific conductance: Maximum, 857 micromhos Jan. 29, 1970; minimum, 70 micromhos Apr. 23, 1969.
pH: Maximum, 7.9 Sept. 13, 14, 1969; minimum, 5.1 Sept. 3, 1969.
Dissolved oxygen: Maximum, 14.8 mg/l Mar. 6, 1971; minimum, 0.0 mg/l July 26, 30, 1970, June 22, 1971.
Water temperatures: Maximum, 30.0° C July 29, 1970; minimum, freezing point several days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station near Leominster, are available at district office.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	264	243	254	218	204	208	267	204	226	344	320	330
2	296	252	269	216	198	207	240	225	230	350	320	327
3	291	241	269	250	191	208	250	225	239	348	320	332
4	273	189	220	251	231	236	247	176	204	357	322	339
5	215	187	203	251	209	230	187	171	180	---	---	---
6	247	222	237	222	200	216	301	189	230	483	295	359
7	267	237	252	232	216	222	349	223	295	306	239	297
8	267	240	255	235	206	222	246	221	231	306	280	295
9	269	225	247	212	197	202	249	230	239	327	308	316
10	268	218	239	255	201	214	413	240	271	329	318	324
11	263	224	249	258	200	227	532	387	467	329	318	325
12	242	231	236	226	194	206	368	255	288	320	308	315
13	264	227	247	234	216	227	263	251	256	318	300	308
14	270	227	246	235	187	206	279	248	260	294	272	283
15	273	234	255	222	164	197	318	253	281	307	254	282
16	272	167	216	183	158	164	304	290	295	338	273	296
17	224	177	202	210	185	198	296	263	275	318	277	300
18	252	224	239	232	209	221	284	251	263	281	266	273
19	233	219	227	242	231	237	299	270	289	284	246	261
20	261	214	238	231	210	221	396	273	352	296	266	278
21	264	214	231	234	170	193	395	290	345	292	264	279
22	252	210	229	201	184	191	304	280	288	311	251	272
23	233	118	195	201	175	188	311	281	294	305	273	284
24	148	117	134	216	177	195	314	284	297	---	---	---
25	168	151	161	225	206	215	311	252	283	---	---	---
26	176	168	173	241	215	227	262	253	257	---	---	---
27	179	172	175	238	199	220	286	268	278	---	---	---
28	198	175	189	242	198	209	297	271	283	---	---	---
29	213	198	207	---	---	---	304	275	283	---	---	---
30	222	207	216	213	200	205	323	296	305	---	---	---
31	226	216	222	---	---	---	341	308	316	---	---	---
MONTH	291	117	224	258	158	211	532	171	277	---	---	---

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01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	227	215	219	193	172	179	156	136	139
2	342	269	351	225	218	221	183	149	166	161	142	148
3	313	290	299	224	222	222	153	141	145	153	132	139
4	328	296	307	225	221	223	145	141	143	138	117	125
5	316	280	295	225	219	222	147	143	145	149	121	130
6	363	278	302	230	220	224	---	---	---	159	137	144
7	364	352	358	228	224	225	177	151	164	162	145	152
8	373	360	364	227	222	224	168	148	155	172	154	161
9	534	376	446	223	219	221	166	156	159	176	121	146
10	537	312	426	---	---	---	172	144	156	142	111	121
11	340	279	304	---	---	---	139	127	131	160	135	142
12	354	283	311	---	---	---	131	116	123	167	147	157
13	362	305	344	---	---	---	127	113	119	173	124	147
14	---	---	---	---	---	---	122	105	111	136	111	120
15	---	---	---	---	---	---	124	118	121	157	128	135
16	---	---	---	---	---	---	126	122	124	149	137	143
17	---	---	---	---	---	---	129	125	127	---	---	---
18	425	283	324	---	---	---	131	127	129	169	136	149
19	536	271	382	---	---	---	133	130	132	180	152	162
20	350	253	290	---	---	---	144	125	131	183	161	170
21	---	---	---	---	---	---	146	122	132	198	167	179
22	253	236	243	247	225	231	146	126	134	198	163	174
23	347	255	289	261	235	244	147	126	133	187	163	172
24	358	280	310	257	235	243	160	132	140	194	166	173
25	364	260	307	266	238	250	157	129	137	214	186	197
26	450	271	353	259	229	240	149	124	132	214	186	198
27	394	257	307	259	225	234	163	141	147	216	185	198
28	280	196	230	237	214	220	168	147	155	214	188	197
29	---	---	---	220	199	205	173	133	150	214	190	200
30	---	---	---	214	193	199	148	122	131	225	199	208
31	---	---	---	199	187	191	---	---	---	223	176	199
MONTH	537	196	325	---	---	---	193	105	140	225	111	161

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	187	178	182	280	270	275	216	195	206	293	259	272
2	216	190	204	---	---	---	---	---	---	317	256	287
3	240	211	222	---	---	---	242	200	217	326	283	304
4	237	214	220	---	---	---	238	193	207	334	293	308
5	234	211	222	---	---	---	227	192	206	331	289	310
6	245	221	232	---	---	---	226	209	218	304	291	299
7	247	218	236	---	---	---	249	230	241	309	268	293
8	233	211	220	---	---	---	287	235	262	284	247	266
9	234	194	211	260	242	252	298	256	276	292	254	273
10	232	201	215	290	246	262	293	245	275	315	275	296
11	238	215	225	265	242	253	306	201	270	331	280	305
12	260	228	242	284	262	274	229	170	194	300	106	195
13	258	231	243	307	257	279	259	236	244	184	129	165
14	244	223	234	301	255	278	268	250	261	225	182	204
15	238	215	227	345	287	322	288	251	275	280	208	238
16	280	245	255	317	298	307	287	250	270	301	266	281
17	315	254	277	330	291	308	309	248	285	304	273	291
18	288	257	274	314	246	288	310	254	275	292	258	269
19	297	248	266	275	246	260	292	255	273	301	270	289
20	276	266	272	262	182	214	286	194	243	301	272	288
21	283	241	263	259	239	247	245	204	223	298	235	265
22	256	146	183	284	260	274	283	247	262	289	258	274
23	205	168	180	312	271	295	271	250	260	299	273	285
24	237	209	227	335	289	308	271	239	253	326	284	305
25	257	234	240	338	297	322	316	240	279	308	286	296
26	---	---	---	330	305	317	322	282	300	308	289	297
27	---	---	---	336	160	253	305	274	300	298	273	288
28	---	---	---	242	154	205	274	146	216	301	242	270
29	---	---	---	263	231	251	230	148	193	299	257	289
30	271	251	255	274	216	243	271	224	243	338	290	316
31	---	---	---	251	197	229	280	241	263	---	---	---
MONTH	315	146	232	---	---	---	322	146	250	338	106	277
YEAR	537	105	238									

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	6.7	6.9	6.7	6.3	6.4	6.8	6.6	6.7	6.9	6.8	6.9
2	7.1	6.8	6.9	6.6	6.3	6.5	6.7	6.5	6.6	7.0	6.9	6.9
3	7.1	6.0	6.9	6.7	6.3	6.5	6.8	6.5	6.6	7.0	6.9	6.9
4	6.8	6.5	6.6	6.8	6.5	6.7	6.6	6.4	6.5	6.9	6.9	6.9
5	7.0	6.6	6.8	6.8	6.5	6.6	6.7	6.4	6.6	6.9	6.6	6.8
6	7.1	6.7	6.8	6.8	6.6	6.7	6.7	6.6	6.6	6.9	6.6	6.7
7	7.0	6.6	6.8	6.9	6.7	6.8	6.9	6.7	6.7	6.9	6.8	6.9
8	7.0	6.6	6.7	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.8
9	7.0	6.6	6.7	7.1	6.8	6.9	6.8	6.6	6.7	6.8	6.7	6.7
10	6.7	6.6	6.6	7.0	6.7	6.9	6.7	6.6	6.6	6.7	6.5	6.6
11	7.0	6.6	6.8	6.8	6.6	6.7	6.7	6.6	6.6	6.7	6.6	6.6
12	7.0	6.7	6.9	6.8	6.6	6.7	6.7	6.6	6.7	6.7	6.6	6.6
13	6.9	6.7	6.8	7.0	6.8	6.9	6.7	6.6	6.7	7.1	6.5	6.7
14	6.7	6.5	6.6	7.0	6.8	6.9	7.0	6.6	6.8	7.1	6.9	7.0
15	6.6	6.5	6.5	7.1	6.9	7.0	7.1	6.9	7.0	7.0	6.9	6.9
16	6.5	6.1	6.3	7.1	7.0	7.0	6.9	6.8	6.9	7.0	6.9	6.9
17	6.5	6.4	6.4	7.2	7.0	7.1	6.9	6.8	6.9	6.9	6.7	6.8
18	7.0	6.5	6.7	7.1	6.9	7.0	6.9	6.8	6.8	6.8	6.5	6.6
19	6.7	6.4	6.6	7.0	6.8	6.9	6.9	6.7	6.8	6.5	6.5	6.5
20	6.9	6.4	6.7	6.9	6.6	6.7	6.9	6.8	6.8	6.5	6.4	6.4
21	6.7	6.5	6.6	6.8	6.4	6.7	6.9	6.8	6.8	6.5	6.3	6.4
22	6.6	6.5	6.5	6.9	6.7	6.8	7.0	6.9	6.9	6.5	6.4	6.4
23	6.5	6.2	6.4	6.8	6.7	6.7	6.9	6.8	6.9	6.5	6.5	6.5
24	6.5	6.2	6.4	6.9	6.7	6.8	6.9	6.8	6.8	6.5	6.5	6.5
25	6.4	6.3	6.4	6.8	6.7	6.8	6.9	6.8	6.8	6.5	6.5	6.5
26	6.4	6.3	6.4	6.8	6.7	6.7	7.0	6.9	6.9	6.5	6.2	6.4
27	6.3	6.2	6.2	6.8	6.7	6.8	7.0	6.9	6.9	6.5	6.2	6.4
28	7.4	6.1	6.4	6.8	6.7	6.8	7.0	6.9	6.9	6.5	6.4	6.5
29	7.1	6.2	6.4	6.8	6.7	6.8	7.0	6.8	6.9	6.5	6.4	6.5
30	7.1	6.2	6.4	6.8	6.7	6.8	6.9	6.8	6.9	6.5	6.4	6.5
31	7.0	6.2	6.4	---	---	---	6.9	6.8	6.8	6.5	6.5	6.5
MCNTH	7.4	6.0	6.6	7.2	6.3	6.8	7.1	6.4	6.8	7.1	6.2	6.6

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.5	6.5	7.0	6.6	6.8	6.7	5.8	6.3	6.3	6.1	6.3
2	7.0	6.5	6.7	6.9	6.6	6.8	6.6	5.9	6.2	6.3	6.1	6.2
3	6.8	6.6	6.7	7.2	6.8	7.0	---	---	---	6.3	6.1	6.2
4	6.7	6.5	6.6	7.4	7.2	7.3	---	---	---	6.2	5.8	6.1
5	6.6	6.6	6.6	7.5	6.9	7.3	---	---	---	6.1	5.8	5.9
6	6.7	6.5	6.6	7.5	6.6	7.2	---	---	---	6.0	5.8	5.9
7	6.7	6.6	6.6	7.5	7.2	7.4	6.7	6.5	6.6	6.0	5.7	5.9
8	6.8	6.7	6.7	7.6	7.5	7.6	6.6	6.4	6.5	5.8	5.7	5.7
9	6.9	6.6	6.7	---	---	---	6.5	6.4	6.4	5.8	5.7	5.7
10	6.9	6.7	6.8	---	---	---	6.4	6.3	6.3	5.8	5.6	5.7
11	6.9	6.7	6.8	---	---	---	6.3	6.2	6.3	---	---	---
12	6.8	6.7	6.7	---	---	---	6.4	6.0	6.2	6.3	6.2	6.2
13	6.8	6.5	6.7	---	---	---	6.3	6.0	6.2	6.3	5.9	6.1
14	---	---	---	---	---	---	6.2	6.1	6.1	6.2	6.0	6.1
15	---	---	---	---	---	---	6.3	6.1	6.1	6.2	6.0	6.1
16	---	---	---	---	---	---	6.2	6.1	6.2	6.2	6.0	6.1
17	---	---	---	---	---	---	6.2	6.1	6.1	---	---	---
18	7.0	6.6	6.7	---	---	---	6.2	6.1	6.1	6.4	6.1	6.3
19	6.5	6.2	6.3	---	---	---	6.2	6.1	6.2	6.3	6.1	6.2
20	6.5	6.1	6.3	---	---	---	6.3	6.1	6.2	6.3	6.1	6.1
21	---	---	---	---	---	---	6.2	6.1	6.2	6.2	6.1	6.1
22	7.2	6.8	7.1	6.8	6.6	6.7	6.3	6.1	6.2	6.2	6.1	6.1
23	7.6	7.2	7.4	---	---	---	6.3	6.2	6.2	6.4	6.1	6.2
24	7.8	7.5	7.6	---	---	---	6.3	6.2	6.3	6.3	6.1	6.2
25	---	---	---	---	---	---	6.3	6.1	6.1	6.3	6.1	6.2
26	7.5	6.7	7.1	---	---	---	6.3	6.1	6.2	6.4	6.2	6.3
27	7.0	6.8	6.9	---	---	---	6.3	6.1	6.2	6.5	6.3	6.4
28	7.0	6.5	6.8	---	---	---	6.4	6.2	6.3	6.5	6.3	6.4
29	---	---	---	---	---	---	6.3	6.2	6.2	6.6	6.2	6.4
30	---	---	---	---	---	---	6.3	6.2	6.2	6.5	6.2	6.3
31	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
MONTH	7.8	6.1	6.8	---	---	---	6.7	5.8	6.2	6.6	5.6	6.1

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.3	6.4	6.6	6.4	6.5	---	---	---	6.8	6.4	6.6
2	6.7	6.4	6.6	---	---	---	---	---	---	6.8	6.4	6.6
3	6.8	6.4	6.5	---	---	---	6.8	6.6	6.7	6.8	6.5	6.6
4	6.9	6.4	6.6	---	---	---	6.6	6.5	6.5	6.8	6.6	6.7
5	6.9	6.4	6.7	---	---	---	6.6	6.3	6.4	6.8	6.5	6.6
6	7.0	6.6	6.7	---	---	---	6.6	6.3	6.4	6.5	6.4	6.5
7	7.2	6.6	6.8	---	---	---	6.6	6.3	6.5	7.0	6.4	6.7
8	6.9	6.4	6.6	---	---	---	6.7	6.3	6.5	7.0	6.7	6.8
9	6.6	6.2	6.4	7.2	6.7	7.0	6.7	6.4	6.5	6.9	6.5	6.7
10	6.7	6.3	6.5	7.3	6.7	6.9	6.6	6.4	6.5	6.8	6.5	6.6
11	6.8	6.4	6.6	7.1	6.7	6.9	---	---	---	6.8	6.6	6.7
12	6.9	6.6	6.7	7.2	6.7	7.0	6.7	6.5	6.6	6.7	6.4	6.6
13	6.9	6.6	6.7	7.5	6.8	7.1	6.8	6.5	6.6	6.7	6.5	6.6
14	6.9	6.6	6.7	7.2	6.8	7.1	6.8	6.5	6.6	6.8	6.6	6.7
15	6.9	6.5	6.7	7.3	6.8	7.0	6.8	6.5	6.7	6.8	6.7	6.7
16	6.8	6.5	6.6	7.2	6.8	7.0	6.8	6.5	6.6	7.1	6.7	6.9
17	6.7	6.4	6.6	7.2	6.9	7.0	6.9	6.5	6.7	6.9	6.8	6.9
18	6.8	6.4	6.6	7.1	6.6	6.9	6.8	6.4	6.6	6.9	6.8	6.9
19	6.9	6.5	6.6	7.0	6.7	6.9	6.7	6.5	6.6	7.0	6.8	6.9
20	7.0	6.5	6.7	7.0	6.7	6.8	6.6	6.3	6.4	7.0	6.9	7.0
21	7.0	6.5	6.8	7.0	6.6	6.8	6.8	6.5	6.5	7.0	6.6	6.8
22	6.5	5.8	6.2	7.0	6.7	6.8	6.9	6.6	6.8	6.9	6.5	6.7
23	6.5	6.3	6.4	7.1	6.8	6.9	6.9	6.6	6.7	6.9	6.5	6.7
24	6.5	6.3	6.4	7.1	6.8	6.9	6.8	6.7	6.8	6.9	6.5	6.7
25	6.5	6.3	6.4	7.0	6.7	6.8	7.0	6.6	6.8	6.8	6.4	6.5
26	6.6	6.3	6.4	7.0	6.7	6.9	6.9	6.7	6.8	7.0	6.4	6.6
27	---	---	---	7.0	6.5	6.7	6.8	6.6	6.7	7.2	6.5	6.9
28	---	---	---	6.8	6.5	6.7	6.8	5.9	6.5	7.2	7.0	7.0
29	---	---	---	7.0	6.7	6.8	6.8	6.5	6.7	7.1	6.8	7.0
30	6.7	6.4	6.6	6.8	6.7	6.7	6.9	6.6	6.7	7.1	6.6	6.9
31	---	---	---	6.8	6.6	6.7	6.8	6.5	6.7	---	---	---
MONTH	7.2	5.8	6.6	---	---	---	7.0	5.9	6.6	7.2	6.4	6.7
YEAR	7.8	5.6	6.6									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	5.1	6.4	7.9	5.4	6.4	8.3	7.2	7.7	9.2	8.4	8.6
2	8.8	5.3	6.7	8.1	5.5	6.8	7.6	5.7	6.4	8.5	7.7	8.2
3	8.1	5.2	6.0	7.1	4.6	5.9	7.4	6.3	6.8	8.7	8.1	8.3
4	5.3	2.5	4.6	7.2	4.6	5.8	7.5	5.9	6.6	8.9	8.6	8.8
5	9.0	5.5	7.3	5.4	4.0	4.8	10.3	7.7	9.4	9.0	6.4	8.5
6	9.1	5.7	7.4	7.7	5.7	6.7	9.8	9.2	9.4	10.5	8.2	9.6
7	8.5	4.8	6.5	8.3	6.0	7.3	11.0	9.7	10.4	10.7	10.2	10.4
8	8.3	4.5	6.1	8.7	6.1	7.3	11.2	9.4	10.3	11.0	10.1	10.6
9	8.3	4.8	6.1	9.8	7.3	8.6	10.0	8.9	9.5	11.1	9.8	10.4
10	6.3	4.7	5.4	8.5	5.6	7.6	9.1	7.6	8.3	10.7	10.1	10.4
11	7.9	5.3	6.2	6.3	5.3	5.9	9.1	8.1	8.7	10.2	9.4	9.8
12	8.5	5.3	6.5	7.2	5.8	6.4	9.2	8.7	8.9	9.6	8.3	8.9
13	7.4	5.0	6.1	7.0	5.8	6.2	9.7	8.7	9.2	10.8	9.5	10.1
14	7.4	4.6	5.6	7.0	5.9	6.4	9.5	7.9	8.3	10.9	9.8	10.3
15	6.2	4.4	5.1	7.7	6.2	6.9	9.6	9.0	9.4	10.5	8.8	9.5
16	4.9	1.8	3.5	8.7	7.4	8.1	10.0	8.8	9.6	10.8	9.2	9.7
17	7.8	4.6	6.6	9.1	7.5	8.3	9.8	9.0	9.6	10.9	9.4	10.1
18	8.5	6.5	7.4	9.2	6.9	8.0	9.8	8.4	9.1	10.2	8.8	9.5
19	7.7	6.0	6.7	7.1	6.1	6.7	9.1	7.7	8.4	9.3	8.3	8.8
20	7.8	5.6	6.5	6.5	5.9	6.1	8.2	7.7	7.9	9.1	7.8	8.4
21	7.3	4.8	6.2	7.6	1.8	5.5	9.6	8.4	9.1	8.6	7.3	8.0
22	5.7	4.2	5.0	8.6	7.8	8.3	10.1	9.8	10.0	7.6	7.0	7.3
23	4.4	1.9	3.3	7.7	7.2	7.5	10.1	9.3	9.6	8.1	7.3	7.8
24	5.9	3.9	5.3	8.7	7.6	8.2	9.7	8.8	9.2	9.6	7.9	9.0
25	5.7	4.5	5.1	8.6	8.0	8.4	10.2	9.3	9.6	9.2	7.6	8.6
26	5.6	5.3	5.8	8.5	7.2	8.0	10.4	10.1	10.3	9.0	6.3	7.8
27	6.3	5.3	5.9	7.8	7.2	7.5	10.4	9.2	9.8	11.1	6.8	8.9
28	7.1	5.2	6.0	7.9	6.3	7.2	9.9	9.3	9.7	11.2	10.6	10.8
29	7.3	5.4	6.2	7.8	6.8	7.2	9.9	8.8	9.3	11.3	10.4	10.7
30	7.4	5.2	6.2	8.2	7.2	7.8	9.5	8.9	9.3	---	---	---
31	7.3	5.1	6.2	---	---	---	9.7	8.8	9.3	---	---	---
MONTH	9.1	1.8	5.9	9.8	1.8	7.0	11.2	5.7	9.0	11.3	6.3	9.2

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTCBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.2	11.0	11.7	11.4	9.6	10.6	10.1	8.4	9.3
2	11.7	10.8	11.0	14.6	13.2	13.7	10.5	8.7	9.7	9.3	7.9	8.7
3	11.8	10.0	10.7	14.0	13.0	13.5	11.3	9.6	10.4	9.5	8.0	8.9
4	10.4	9.0	9.7	13.9	13.5	13.7	11.0	9.7	10.4	9.6	8.3	9.4
5	9.4	8.3	8.9	14.3	13.2	13.8	11.0	10.6	10.9	10.0	7.6	9.1
6	9.1	7.6	8.4	14.8	11.9	13.6	---	---	---	8.9	7.7	8.2
7	9.2	8.1	8.5	14.1	13.0	13.6	12.7	11.8	12.0	8.9	6.8	8.1
8	10.6	9.3	10.0	13.4	11.3	12.6	12.5	11.0	12.0	8.5	6.8	7.8
9	9.9	7.9	8.6	12.9	12.2	12.5	12.4	10.7	11.6	9.3	6.7	8.4
10	10.8	8.7	9.7	---	---	---	11.7	10.7	11.2	10.2	9.5	9.8
11	10.1	9.2	9.7	---	---	---	12.3	11.3	11.8	---	---	---
12	9.8	8.2	8.8	---	---	---	12.3	10.8	11.6	8.4	6.9	7.7
13	8.7	7.7	8.0	---	---	---	11.8	10.4	11.1	8.3	6.6	7.3
14	---	---	---	---	---	---	11.2	10.7	11.0	---	---	---
15	---	---	---	---	---	---	---	---	---	9.4	7.5	8.6
16	---	---	---	---	---	---	---	---	---	9.0	7.4	8.3
17	---	---	---	---	---	---	---	---	---	8.6	7.9	8.4
18	10.6	9.7	10.3	---	---	---	---	---	---	7.7	5.6	6.8
19	10.2	9.5	9.8	---	---	---	---	---	---	7.9	6.0	6.9
20	10.7	5.6	9.2	---	---	---	10.2	8.8	9.5	7.6	6.1	6.7
21	---	---	---	---	---	---	9.7	8.5	9.2	7.7	6.0	6.7
22	11.3	10.7	11.1	11.7	10.4	11.2	9.9	8.6	9.3	7.7	5.9	6.8
23	10.6	9.7	10.1	11.3	10.2	10.7	9.3	8.5	8.9	8.4	6.3	7.3
24	10.0	8.5	9.3	11.5	10.5	11.0	9.3	7.9	8.8	8.4	5.9	7.3
25	---	---	---	11.6	10.4	11.0	9.0	8.0	8.6	6.9	5.6	6.2
26	---	---	---	11.6	9.9	10.8	9.6	8.7	9.2	7.6	5.3	6.5
27	---	---	---	11.5	7.4	9.3	9.9	8.5	9.2	8.3	6.3	7.2
28	---	---	---	11.4	10.2	10.7	9.8	8.4	9.3	8.7	6.7	7.7
29	---	---	---	11.2	9.5	10.6	9.7	9.1	9.0	9.1	6.2	7.7
30	---	---	---	11.3	9.9	10.6	10.6	8.9	9.9	8.7	6.0	7.4
31	---	---	---	10.4	10.0	10.3	---	---	---	8.8	6.6	7.8
MONTH	---	---	---	---	---	---	12.7	7.9	10.2	10.2	5.3	7.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	7.4	8.1	5.8	2.4	3.7	---	---	---	5.5	3.0	4.1
2	9.4	6.8	8.2	---	---	---	---	---	---	5.3	3.5	4.3
3	9.5	6.4	7.4	---	---	---	5.6	3.4	3.9	6.3	3.6	4.7
4	9.1	6.0	7.4	---	---	---	5.1	3.7	4.3	6.0	2.9	4.0
5	9.2	5.8	7.4	---	---	---	6.3	4.2	5.0	5.7	2.7	3.8
6	10.3	6.6	8.0	---	---	---	6.5	4.1	5.1	4.6	2.8	3.6
7	9.2	5.7	7.7	---	---	---	6.4	3.9	4.9	6.6	3.7	4.6
8	8.8	4.4	6.2	---	---	---	6.3	2.0	4.8	5.9	3.2	4.5
9	7.6	3.6	5.6	8.5	3.8	6.7	6.0	3.6	4.5	5.7	2.9	4.0
10	8.7	4.2	6.8	8.9	2.9	5.4	6.0	3.1	4.3	5.9	3.1	4.3
11	9.0	5.6	7.2	7.5	3.1	5.2	5.4	2.3	3.7	6.1	3.4	4.5
12	8.6	5.5	6.3	9.0	3.6	5.7	4.4	2.2	3.3	---	---	---
13	8.1	4.9	6.3	8.3	3.9	5.5	5.6	3.3	4.2	---	---	---
14	8.8	5.5	7.1	7.5	3.6	5.2	5.9	3.4	4.4	---	---	---
15	8.4	5.1	6.7	7.4	3.4	5.1	5.8	3.5	4.5	---	---	---
16	8.1	4.8	6.3	7.8	3.5	5.4	6.1	3.5	4.9	---	---	---
17	7.4	1.5	4.9	6.9	3.4	4.7	6.2	4.2	5.0	---	---	---
18	7.5	3.4	5.2	6.8	3.3	4.8	6.3	3.7	4.9	---	---	---
19	7.5	3.8	5.5	5.9	3.7	4.7	6.2	3.2	4.5	---	---	---
20	7.9	3.7	5.6	6.3	3.8	4.8	4.0	2.2	3.3	---	---	---
21	8.2	0.4	5.2	6.8	3.8	5.1	5.6	2.7	3.9	---	---	---
22	4.6	0.0	2.7	6.6	3.6	4.8	5.4	3.2	4.1	---	---	---
23	5.4	3.2	4.3	6.3	3.3	4.6	5.5	3.0	4.1	---	---	---
24	4.9	2.0	3.5	6.4	2.9	4.3	5.6	2.8	4.3	---	---	---
25	5.0	2.3	3.4	5.6	2.6	3.8	6.2	3.0	4.5	---	---	---
26	---	---	---	5.8	3.2	4.3	6.1	3.0	4.4	---	---	---
27	---	---	---	4.2	0.3	2.3	4.6	2.8	3.7	---	---	---
28	---	---	---	4.8	2.8	3.6	4.1	1.5	3.1	---	---	---
29	---	---	---	4.5	2.8	3.5	5.3	3.3	4.3	---	---	---
30	6.5	2.8	5.1	3.7	2.6	3.1	5.0	3.0	3.9	---	---	---
31	---	---	---	4.0	1.6	3.2	4.9	2.9	3.7	---	---	---
MONTH	10.3	0.0	6.1	---	---	---	6.5	1.5	4.2	---	---	---
YEAR	14.8	0.0	7.5									

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	16.0	17.0	12.0	9.5	11.0	9.5	7.0	8.0	1.0	1.0	1.0
2	17.5	15.5	16.5	11.0	9.5	10.5	11.0	8.0	10.0	1.0	1.0	1.0
3	19.0	16.5	18.0	14.0	10.0	12.5	9.5	8.0	8.5	1.5	1.0	1.0
4	19.5	15.0	17.5	14.5	13.0	13.5	11.0	7.0	10.0	2.5	1.0	1.5
5	15.0	12.5	14.0	14.0	11.0	13.0	6.5	4.0	4.0	5.0	2.5	4.0
6	15.5	11.5	13.5	11.5	9.5	10.5	5.0	3.0	4.0	4.0	1.5	3.5
7	20.0	15.5	17.5	11.5	8.0	10.0	3.0	0.5	2.0	1.5	0.5	1.0
8	20.0	17.5	19.0	11.5	8.5	9.5	2.5	0.0	1.5	1.0	0.5	1.0
9	20.5	18.5	20.0	8.0	6.5	7.5	4.0	1.5	3.0	1.0	0.5	1.0
10	20.5	18.5	19.0	12.0	7.5	9.5	6.0	3.5	5.0	2.0	1.0	1.5
11	18.5	18.0	18.0	14.0	12.0	13.0	4.5	3.0	4.0	4.5	2.0	3.0
12	19.0	16.5	17.5	13.5	12.0	12.5	4.0	3.0	3.5	6.0	3.0	4.5
13	20.5	18.0	18.5	13.0	12.0	12.5	4.0	2.0	2.5	2.5	0.5	1.0
14	21.5	19.0	20.5	13.5	11.5	12.5	4.5	3.5	4.0	0.5	0.5	0.5
15	21.5	20.0	21.0	11.5	9.5	10.5	3.5	1.5	2.5	3.0	0.5	1.0
16	21.5	15.0	19.0	9.5	7.0	8.5	3.5	0.0	1.5	2.5	0.5	1.0
17	15.0	11.0	12.5	9.0	6.5	8.0	3.0	0.5	1.0	0.5	0.5	0.5
18	12.0	9.5	11.0	10.0	6.5	8.0	4.0	1.5	3.0	0.5	0.5	0.5
19	13.5	11.0	12.0	11.5	8.5	10.0	5.5	2.0	4.0	0.5	0.5	0.5
20	13.0	9.5	11.5	14.5	10.5	12.0	5.0	3.5	4.5	0.5	0.5	0.5
21	15.0	11.0	15.0	13.5	8.5	11.5	3.0	1.5	2.5	0.5	0.5	0.5
22	17.0	14.0	15.5	9.0	7.0	8.0	1.0	0.5	0.5	0.5	0.5	0.5
23	18.5	16.5	17.5	10.0	8.5	9.5	1.0	0.5	0.5	1.0	0.5	0.5
24	17.0	16.5	16.5	8.5	5.0	7.0	1.0	0.5	0.5	---	---	---
25	16.5	15.0	16.0	6.5	4.5	5.5	1.0	0.5	0.5	---	---	---
26	15.0	12.5	13.5	7.0	3.5	5.5	1.0	0.5	0.5	---	---	---
27	13.0	11.5	12.5	7.0	6.0	6.5	1.0	0.5	0.5	---	---	---
28	12.5	9.5	11.5	9.0	6.0	7.5	1.0	0.5	0.5	---	---	---
29	12.5	9.0	11.0	8.5	6.5	7.5	1.0	0.5	0.5	---	---	---
30	12.0	9.0	11.0	8.0	7.0	7.5	1.0	0.5	0.5	---	---	---
31	12.0	8.5	11.0	---	---	---	1.0	0.5	1.0	---	---	---
MONTH	21.5	8.5	15.5	14.5	3.5	9.5	11.0	0.0	3.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	2.0	4.0	7.5	3.0	5.5	12.5	8.5	10.5
2	0.5	0.0	0.0	---	---	---	9.5	5.0	7.0	12.0	9.5	11.0
3	0.0	0.0	0.0	---	---	---	7.5	4.5	5.5	11.5	10.0	10.5
4	0.0	0.0	0.0	---	---	---	7.5	3.0	5.0	11.5	10.0	10.5
5	0.0	0.0	0.0	---	---	---	6.5	3.0	5.0	14.5	9.0	11.5
6	5.0	0.0	2.5	---	---	---	---	---	---	14.0	12.0	13.0
7	5.0	2.5	4.0	---	---	---	5.5	3.0	4.5	16.5	11.5	14.0
8	3.5	0.5	1.5	---	---	---	7.0	3.0	4.5	16.0	13.0	13.5
9	5.0	1.5	3.0	---	---	---	9.0	3.5	6.5	14.0	10.5	11.5
10	2.5	0.5	1.5	---	---	---	9.0	6.5	7.5	13.5	10.0	11.5
11	3.5	0.5	1.5	---	---	---	8.0	5.0	6.5	---	---	---
12	6.5	2.0	4.5	---	---	---	9.0	5.0	7.0	18.0	16.0	17.0
13	5.5	4.5	5.0	---	---	---	10.0	6.0	8.0	17.0	14.0	15.0
14	---	---	---	---	---	---	9.0	7.0	8.0	16.5	12.0	14.5
15	---	---	---	---	---	---	9.0	5.0	7.0	16.5	12.0	14.5
16	---	---	---	---	---	---	7.0	5.5	6.0	15.5	13.0	13.5
17	---	---	---	---	---	---	10.0	5.5	7.5	---	---	---
18	6.0	5.0	5.5	---	---	---	8.5	6.5	7.5	19.0	14.0	17.5
19	7.5	5.0	6.0	---	---	---	11.5	7.0	9.5	20.0	15.5	17.5
20	7.0	4.0	5.0	---	---	---	11.5	8.5	10.0	19.5	16.5	18.5
21	---	---	---	---	---	---	12.0	9.0	10.5	18.0	17.0	17.5
22	3.5	3.0	3.0	6.5	4.5	5.5	11.0	8.5	9.5	19.0	15.5	16.5
23	5.0	2.5	4.0	7.0	3.5	5.5	10.5	8.5	9.5	18.5	14.0	16.0
24	4.0	3.5	4.0	5.0	2.5	4.0	12.0	7.5	10.0	17.5	13.0	15.5
25	5.5	4.0	4.5	5.5	1.5	4.0	11.0	9.0	9.5	18.5	16.5	17.5
26	7.0	4.5	6.0	6.5	2.5	4.5	9.5	8.0	9.0	18.5	17.0	18.0
27	7.0	5.0	6.0	6.5	2.0	5.0	11.0	8.5	9.5	17.0	15.5	16.5
28	5.5	3.0	4.5	7.0	3.0	5.5	10.5	8.0	9.0	16.0	14.0	15.0
29	---	---	---	7.5	4.0	6.0	11.0	8.5	9.5	19.0	13.5	16.5
30	---	---	---	8.5	4.5	6.5	11.5	8.0	9.5	17.5	15.0	16.0
31	---	---	---	7.5	3.5	5.5	---	---	---	17.0	15.0	16.0
MONTH	7.5	0.0	3.5	---	---	---	12.0	3.0	7.5	20.0	8.5	14.5

01094700 NORTH NASHUA RIVER AT NORTH VILLAGE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.0	14.5	28.0	25.0	26.0	---	---	---	22.0	18.5	20.5
2	19.0	15.0	17.5	---	---	---	---	---	---	21.5	18.0	20.0
3	19.0	16.5	17.5	---	---	---	27.0	26.0	26.5	22.5	20.0	21.5
4	22.0	17.5	20.0	---	---	---	26.0	23.0	24.0	25.0	22.0	23.5
5	21.5	18.5	20.0	---	---	---	25.5	21.0	23.0	27.0	24.0	25.5
6	20.0	15.5	18.0	---	---	---	24.0	20.5	22.5	25.5	20.5	23.0
7	23.0	17.5	21.0	---	---	---	25.0	20.5	23.0	22.5	20.0	21.0
8	25.5	21.5	23.5	---	---	---	25.5	21.0	23.0	24.5	21.5	23.0
9	23.5	21.0	22.0	26.5	25.0	26.0	27.5	22.5	24.5	26.0	24.0	25.0
10	22.5	17.0	20.5	26.0	23.0	24.5	27.5	23.5	25.5	25.0	22.5	24.0
11	21.0	17.0	19.5	24.0	22.0	23.0	27.5	24.5	26.0	24.5	22.5	23.5
12	22.5	18.0	20.5	24.5	20.0	22.0	25.0	23.0	24.0	24.0	22.0	23.0
13	21.5	20.5	21.0	24.0	20.0	22.0	24.5	20.0	22.5	22.0	20.5	21.5
14	21.5	17.0	20.0	24.0	21.0	22.5	25.0	21.0	23.5	21.5	20.0	20.5
15	21.0	17.0	19.5	24.0	21.0	22.5	25.0	22.5	23.5	24.0	20.0	22.0
16	22.0	18.0	20.0	25.0	21.0	23.0	25.5	22.0	23.5	25.0	21.0	23.0
17	23.0	17.0	21.5	24.0	22.5	23.0	24.5	20.0	22.5	24.5	22.0	23.0
18	24.5	20.5	23.0	24.5	21.0	23.0	25.5	21.5	23.5	22.5	20.5	21.5
19	25.0	21.5	23.5	22.0	20.0	20.5	27.0	22.5	25.0	21.5	19.5	20.5
20	25.5	22.0	24.0	23.0	19.5	21.5	27.0	24.5	26.0	19.0	18.5	18.5
21	25.0	22.5	24.0	24.0	19.5	22.0	26.5	23.5	25.5	20.5	18.5	19.5
22	25.5	22.5	24.5	25.0	21.0	23.0	26.5	24.0	25.0	19.5	17.0	18.5
23	25.5	23.5	24.5	26.0	22.0	24.0	24.5	21.5	23.0	19.0	15.5	17.5
24	27.0	22.5	24.5	27.0	23.5	25.0	21.5	18.0	20.0	19.5	17.5	18.5
25	27.0	23.0	25.0	25.5	24.0	25.0	21.0	17.5	19.5	17.0	14.5	16.0
26	28.0	24.5	25.5	25.5	22.5	24.0	23.0	19.5	21.0	16.0	14.5	15.5
27	---	---	---	26.0	24.0	25.0	22.0	19.0	20.5	15.0	13.5	14.5
28	---	---	---	26.5	22.5	24.5	23.0	19.0	20.0	18.0	15.5	16.5
29	---	---	---	25.0	22.0	23.5	23.5	19.5	22.0	20.0	18.0	19.5
30	26.5	23.0	25.5	24.5	23.0	24.0	24.5	20.5	22.5	21.0	19.0	20.0
31	---	---	---	27.0	22.5	24.5	24.0	21.0	22.5	---	---	---
MONTH	28.0	14.0	21.5	---	---	---	27.5	17.5	23.0	27.0	13.5	20.5
YEAR	28.0	0.0	13.0									

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.

LOCATION.--Lat 42°38'20", long 71°22'17", Middlesex County, on left bank at intake of Lowell water treatment plant, 2.7 miles upstream from Pawtucket Dam, and 6 miles downstream from Massachusetts-New Hampshire State line.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

REMARKS.--Additional chemical analyses for this station in radiochemical and pesticide tables and in table of composited samples.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEM-PERA-TURE (DEG C)	AIR TEM-PERA-TURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 05...	1100	3940	99	6.7	7.1	17.3	12.5	180000
NOV. 02...	0900	4610	93	8.0	6.5	9.8	8.3	24000
DEC. 07...	1000	6630	82	12.3	6.6	1.8	11.9	27000
JAN. 05...	1200	4460	103	12.4	6.7	.2	4.5	120000
FEB. 08...	0900	5990	115	10.6	6.7	.5	2.9	77000
MAR. 02...	1000	8780	113	12.6	6.7	1.7	7.3	26000
APR. 05...	1000	22000	76	13.1	6.5	3.3	11.0	6400
MAY 03...	1000	16600	54	11.8	6.2	8.1	12.0	21000
JUNE 07...	0900	7270	104	8.2	6.9	20.1	27.5	46000
JULY 13...	1000	1930	143	5.2	7.0	25.2	25.4	16000
AUG. 09...	0900	2690	108	7.0	7.0	25.0	30.5	18700
SEP. 13...	1600	2490	159	5.2	6.7	22.8	18.0	41000

DATE	FECAL COLI-FORM (COL. PER 100 ML)	NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METH-YLENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)
OCT. 05...	280	.4	2.5	.13	.06	13	7.8	3
NOV. 02...	770	.2	1.4	.15	.10	15	1.6	1
DEC. 07...	850	.2	.98	.12	.04	14	.0	2
JAN. 05...	2900	.2	1.5	.14	.04	8	.9	2
FEB. 08...	2000	.2	1.5	.18	.04	14	.2	1
MAR. 02...	820	.3	.92	.10	.05	10	.0	5
APR. 05...	640	.2	.78	.12	.04	19	2.7	30
MAY 03...	900	.2	.55	.050	.02	12	2.6	2
JUNE 07...	600	2.7	1.4	.10	.07	12	11	1
JULY 13...	530	.2	3.4	.27	.05	22	24	9
AUG. 09...	226	.1	1.4	.18	.05	21	27	8
SEP. 13...	1000	.4	3.4	.24	.07	24	24	7

01096550 MERRIMACK RIVER ABOVE LOWELL, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JULY, 1971											
13...	--	--	--	21	--	--	--	1.6	--	--	--
SEP.											
13...	89	87	23	25	3	6.2	.06	1.4	3.8	5.0	0

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)
JULY, 1971											
13...	--	8.0	--	--	--	1.8	26	--	--	--	.020
AUG.											
09...	--	--	--	--	--	.51	--	--	--	--	.020
SEP.											
13...	4.1	8.0	1.2	16	1.9	2.0	30	14	20	.5	.050

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	COLOR (PLAT-INUM COBALT UNITS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT., 1970											
14...	--	--	--	106	0	0	0	3	9	<.5	20
SEP., 1971											
13...	25	0	26	159	0	--	--	--	--	1.2	--

01096570 MERRIMACK RIVER ABOVE CONCORD RIVER, AT LOWELL, MASS.

LOCATION.--Lat 42°38'57", long 71°19'50", Middlesex County, at Mammoth Road Bridge, multiple-parameter monitor in gatehouse at Pawtucket Dam, 0.8 mile upstream from Beaver Brook, 1.8 miles upstream from Concord River, and 2 miles upstream from gaging station below Concord River.

DRAINAGE AREA.--Total above gage, 4,131 sq mi; net above gage, 4,014 sq mi (diversions as needed from 117 sq mi for use of Boston metropolitan district and city of Worcester).

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1971.
Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 173 micromhos Aug. 29; minimum, 47 micromhos Apr. 24, May 7.
Water temperatures: Maximum, 29.0°C July 9, 10; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 254 micromhos Aug. 2, 1970; minimum, 34 micromhos Apr. 22, 1969.
Water temperatures: Maximum, 31.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station below Concord River (sta 01100000) and gaging station on Concord River (sta 01099500) are available at district office.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	98	89	94	90	75	81	---	---	---
2	---	---	---	98	88	93	90	83	86	---	---	---
3	---	---	---	99	88	94	93	81	87	---	---	---
4	---	---	---	109	89	102	---	---	---	---	---	---
5	112	107	109	115	106	109	---	---	---	---	---	---
6	123	109	116	109	92	101	---	---	---	---	---	---
7	120	112	114	103	93	98	---	---	---	---	---	---
8	129	118	122	104	95	100	---	---	---	---	---	---
9	130	119	124	107	95	99	---	---	---	---	---	---
10	125	108	115	107	98	102	---	---	---	---	---	---
11	109	104	107	115	105	109	---	---	---	---	---	---
12	107	98	102	117	112	115	---	---	---	---	---	---
13	115	102	107	118	113	116	---	---	---	---	---	---
14	124	115	117	120	108	115	---	---	---	---	---	---
15	140	122	133	117	100	112	---	---	---	---	---	---
16	139	123	129	[illegible]	96	100	---	---	---	---	---	---
17	121	101	107	107	97	101	---	---	---	---	---	---
18	102	94	98	114	108	110	---	---	---	---	---	---
19	96	85	92	117	107	111	---	---	---	---	---	---
20	95	80	85	112	98	105	---	---	---	---	---	---
21	101	93	98	109	98	104	---	---	---	---	---	---
22	131	99	115	114	95	106	---	---	---	---	---	---
23	128	123	125	95	85	89	---	---	---	---	---	---
24	132	116	125	96	88	92	---	---	---	---	---	---
25	118	106	110	92	89	90	---	---	---	---	---	---
26	113	91	99	91	89	90	---	---	---	---	---	---
27	90	78	81	91	80	89	---	---	---	---	---	---
28	87	78	82	80	77	79	---	---	---	---	---	---
29	91	81	87	77	73	75	---	---	---	---	---	---
30	97	86	91	77	69	74	---	---	---	---	---	---
31	98	93	96	---	---	---	---	---	---	---	---	---
MONTH	140	78	107	120	69	99	---	---	---	---	---	---

01096570 MERRIMACK RIVER ABOVE CONCORD RIVER, AT LOWELL, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	117	109	113	105	101	104	57	55	56
2	---	---	---	116	110	112	104	100	103	58	55	57
3	134	121	129	114	107	110	106	99	104	54	52	53
4	128	116	122	109	100	106	99	84	91	59	53	55
5	130	117	124	110	106	108	83	77	79	60	52	55
6	135	126	129	110	107	109	77	73	74	61	48	53
7	135	120	125	110	109	110	78	73	76	56	47	53
8	138	116	126	111	100	109	79	73	76	62	57	60
9	148	127	134	115	106	111	77	71	73	64	53	62
10	164	129	144	115	111	112	---	---	---	57	53	54
11	155	128	144	111	109	110	---	---	---	60	54	57
12	137	122	125	115	110	113	---	---	---	62	56	59
13	149	127	138	117	108	114	---	---	---	61	54	57
14	147	132	139	122	108	117	---	---	---	61	59	60
15	134	120	126	117	111	115	---	---	---	61	56	58
16	142	124	133	123	111	118	---	---	---	57	56	56
17	131	115	120	121	116	119	---	---	---	62	54	57
18	124	111	115	115	104	110	---	---	---	69	62	65
19	118	110	113	104	99	101	---	---	---	73	64	70
20	127	110	117	102	97	99	64	62	63	76	70	73
21	119	109	113	109	102	105	64	60	62	73	66	69
22	111	105	109	102	99	100	60	54	56	70	66	68
23	118	106	110	105	100	102	53	48	52	66	64	65
24	127	114	120	110	106	108	51	47	49	68	65	66
25	122	113	117	108	104	106	54	52	53	69	67	68
26	127	112	119	107	102	105	56	52	54	75	70	73
27	131	115	124	108	107	107	57	54	56	82	75	79
28	135	112	123	107	105	106	58	54	56	81	77	79
29	---	---	---	107	104	106	60	56	58	80	77	78
30	---	---	---	110	100	108	61	55	58	79	73	75
31	---	---	---	108	103	105	---	---	---	78	74	76
MONTH	164	105	125	123	97	109	---	---	---	82	47	63

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	81	75	78	125	120	123	---	---	---	110	100	105
2	86	75	83	129	124	126	---	---	---	118	109	113
3	88	84	86	133	124	128	---	---	---	127	118	122
4	95	86	88	131	123	128	---	---	---	132	123	127
5	97	89	92	124	120	121	---	---	---	132	125	128
6	99	93	96	127	120	124	113	102	105	128	125	127
7	100	93	97	120	116	117	107	99	103	126	122	125
8	101	92	97	119	115	117	114	103	109	142	124	134
9	116	97	106	127	116	121	113	109	111	140	133	136
10	109	95	103	139	130	135	---	---	---	147	137	142
11	104	96	100	140	136	138	109	107	108	141	136	138
12	111	100	107	148	140	144	119	107	111	143	139	141
13	113	103	109	151	142	146	120	114	118	158	141	149
14	119	110	115	144	138	140	115	112	114	158	143	150
15	116	106	110	147	135	140	120	115	118	143	121	132
16	121	109	113	151	140	144	119	114	116	149	123	132
17	133	117	123	152	146	148	128	116	122	126	113	120
18	130	116	122	152	148	150	131	125	128	116	109	114
19	128	119	123	158	152	154	131	126	128	120	105	109
20	125	118	121	162	151	158	128	121	126	122	117	119
21	130	124	126	150	129	140	139	127	134	116	105	112
22	133	128	131	130	119	126	144	135	139	104	98	101
23	129	123	125	133	123	127	145	138	142	118	104	110
24	136	124	130	136	131	133	141	134	139	120	116	118
25	143	126	136	135	131	134	135	129	133	118	110	112
26	136	126	132	136	126	135	136	126	132	119	112	116
27	138	133	136	---	---	---	146	129	135	126	119	122
28	133	124	129	---	---	---	172	146	159	126	120	123
29	127	111	120	---	---	---	173	158	167	119	108	114
30	119	106	112	---	---	---	161	126	143	121	106	113
31	---	---	---	---	---	---	127	104	117	---	---	---
MONTH	143	75	111	162	115	135	173	99	126	158	98	124
YEAR	173	47	107									

01096570 MERRIMACK RIVER ABOVE CONCORD RIVER, AT LOWELL, MASS.--Continued

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.0	9.5	10.0	4.5	4.0	4.0	0.5	0.0	0.0
2	---	---	---	10.0	9.5	9.5	4.5	4.5	4.5	0.5	0.0	0.0
3	---	---	---	10.0	9.5	10.0	4.5	4.5	4.5	0.5	0.0	0.0
4	---	---	---	10.0	10.0	10.0	5.0	4.5	4.5	0.5	0.0	0.5
5	17.5	17.5	17.5	10.5	10.0	10.0	4.5	4.0	4.5	0.5	0.0	0.5
6	18.0	17.0	17.5	10.0	9.5	10.0	4.0	3.0	3.5	0.5	0.0	0.0
7	18.0	17.0	17.0	10.0	9.5	9.5	2.5	1.5	2.0	0.0	0.0	0.0
8	18.5	17.0	17.5	9.5	9.0	9.5	1.5	0.5	1.0	0.5	0.5	0.0
9	18.0	17.0	17.5	9.5	9.0	9.0	1.0	0.5	0.5	0.5	0.0	0.5
10	17.5	17.0	17.5	9.0	8.5	9.0	1.0	0.5	0.5	0.5	0.0	0.5
11	17.5	17.0	17.5	9.0	9.0	9.0	1.0	0.0	0.5	0.5	0.0	0.0
12	17.5	17.0	17.5	9.5	9.0	9.5	0.5	0.0	0.5	0.5	0.0	0.0
13	17.5	17.0	17.0	9.5	9.5	9.5	0.5	0.0	0.5	0.5	0.0	0.5
14	17.5	17.0	17.5	10.0	9.5	10.0	0.5	0.0	0.5	0.5	0.0	0.0
15	18.0	17.0	17.5	10.0	9.5	10.0	0.5	0.5	0.5	0.5	0.0	0.0
16	17.5	17.0	17.5	9.5	9.5	9.5	0.5	0.0	0.5	0.5	0.0	0.0
17	17.0	15.5	16.0	9.5	8.5	9.0	0.5	0.0	0.5	0.5	0.0	0.0
18	15.5	14.5	15.0	9.5	8.0	8.0	0.5	0.0	0.5	0.5	0.0	0.0
19	14.5	13.5	14.0	8.0	8.0	8.0	0.5	0.0	0.5	0.5	0.0	0.5
20	13.5	13.0	13.5	8.0	8.0	8.0	0.5	0.0	0.5	0.5	0.0	0.0
21	13.5	13.0	13.0	8.0	8.0	8.0	0.5	0.0	0.5	0.5	0.0	0.0
22	13.0	12.5	12.5	8.0	7.5	8.0	0.5	0.0	0.5	0.5	0.0	0.0
23	13.0	12.5	13.0	8.0	7.0	7.0	0.5	0.0	0.5	0.0	0.0	0.0
24	14.0	13.0	13.5	7.0	6.0	6.5	0.5	0.0	0.5	0.0	0.0	0.0
25	14.0	13.5	13.5	6.0	5.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0
26	13.5	13.0	13.0	5.0	4.5	5.0	0.5	0.0	0.5	0.0	0.0	0.0
27	13.0	12.0	12.5	4.5	4.0	4.5	0.5	0.0	0.5	0.5	0.0	0.0
28	12.0	11.5	12.0	4.5	4.0	4.0	0.5	0.0	0.5	0.5	0.0	0.5
29	11.5	11.0	11.0	4.5	4.0	4.0	0.5	0.0	0.5	0.5	0.0	0.0
30	11.0	10.0	10.5	4.5	4.0	4.0	0.5	0.0	0.5	0.5	0.0	0.0
31	10.5	10.0	10.0	---	---	---	0.5	0.0	0.0	0.5	0.0	0.0
MONTH	18.5	10.0	15.0	10.5	4.0	8.0	5.0	0.0	1.0	0.5	0.0	0.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	2.0	1.5	2.0	4.0	3.0	3.5	9.5	8.5	9.0
2	0.5	0.0	0.0	2.0	1.0	1.5	4.5	2.0	4.0	9.5	9.0	9.5
3	0.5	0.0	0.0	2.0	1.0	1.5	5.0	4.0	4.5	9.5	9.0	9.5
4	0.5	0.0	0.5	1.5	0.0	0.5	4.5	2.5	4.0	9.5	9.5	9.5
5	0.5	0.0	0.5	1.0	0.5	0.5	3.5	1.5	2.5	9.5	9.0	9.0
6	0.5	0.0	0.0	1.0	0.0	0.5	3.5	1.0	3.0	9.5	9.0	9.0
7	0.5	0.0	0.5	1.5	0.0	1.0	3.5	1.0	3.0	10.0	9.0	9.5
8	0.5	0.0	0.5	1.5	0.0	1.0	3.0	1.5	3.0	10.5	10.0	10.5
9	0.5	0.0	0.5	1.5	0.5	1.0	3.0	2.5	3.0	10.5	10.5	10.5
10	0.5	0.0	0.5	2.0	1.0	1.5	---	---	---	11.0	10.5	10.5
11	0.5	0.0	0.5	2.0	0.0	1.0	---	---	---	12.0	11.0	11.5
12	0.5	0.0	0.5	2.0	0.0	1.0	---	---	---	12.5	12.0	12.0
13	0.5	0.0	0.5	2.0	1.0	1.5	---	---	---	13.0	12.5	12.5
14	0.5	0.0	0.5	2.0	1.0	2.0	---	---	---	13.0	12.5	13.0
15	0.5	0.5	0.5	2.5	2.0	2.5	---	---	---	13.5	13.0	13.0
16	0.5	0.0	0.5	3.0	2.5	3.0	---	---	---	13.0	12.5	13.0
17	0.5	0.0	0.5	3.0	2.5	3.0	---	---	---	13.0	12.5	12.5
18	0.5	0.0	0.0	2.5	2.0	2.0	---	---	---	14.5	13.0	13.5
19	1.0	0.0	0.5	2.0	1.5	1.5	---	---	---	15.5	14.5	15.0
20	1.0	0.5	1.0	1.5	1.0	1.5	8.5	8.0	8.5	16.0	15.0	15.5
21	1.0	0.5	1.0	2.0	1.5	1.5	9.0	8.0	9.0	16.0	15.5	16.0
22	1.0	0.5	1.0	2.5	1.5	2.0	9.0	8.5	9.0	16.0	15.5	15.5
23	1.0	0.0	1.0	2.5	2.0	2.5	8.5	8.0	8.5	15.5	15.0	15.0
24	1.0	0.5	0.5	2.5	2.0	2.5	8.5	7.0	8.0	15.5	14.5	15.0
25	1.0	0.5	0.5	2.5	1.5	2.0	8.5	8.0	8.0	16.0	15.0	15.5
26	1.5	0.5	1.0	2.5	0.0	1.5	8.5	8.0	8.5	16.0	15.5	15.5
27	2.0	1.0	1.5	3.0	0.0	2.5	9.5	8.5	8.5	16.0	15.5	16.0
28	2.0	1.0	2.0	3.0	1.0	2.5	9.0	8.5	8.5	15.5	15.0	15.5
29	---	---	---	3.5	2.0	3.0	9.0	8.5	8.5	16.0	15.0	15.5
30	---	---	---	4.0	3.0	3.5	8.5	8.5	8.5	15.5	15.0	15.5
31	---	---	---	4.0	2.0	3.5	---	---	---	15.5	15.0	15.5
MONTH	2.0	0.0	0.5	4.0	0.0	2.0	---	---	---	16.0	8.5	13.0

01096570 MERRIMACK RIVER ABOVE CONCORD RIVER, AT LOWELL, MASS.--Continued

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.0	15.5	26.5	25.5	26.0	---	---	---	24.0	23.0	23.5
2	17.5	16.0	16.5	26.5	25.5	26.0	---	---	---	24.0	23.0	23.5
3	17.5	17.0	17.0	26.5	25.5	26.0	---	---	---	23.5	22.5	23.0
4	18.5	17.5	18.0	26.5	25.5	26.0	---	---	---	25.0	22.5	23.5
5	19.5	18.0	19.0	26.5	25.5	26.0	---	---	---	25.5	23.5	24.5
6	20.0	19.0	19.5	26.5	25.0	26.0	26.0	25.0	25.5	24.5	23.0	23.5
7	21.0	19.0	20.0	26.5	25.5	26.0	26.5	24.5	25.0	24.0	22.5	23.0
8	22.5	20.5	21.5	28.0	25.5	26.5	27.5	24.5	25.0	24.5	23.0	24.0
9	22.0	21.0	21.5	29.0	26.0	27.0	25.5	25.0	25.0	25.0	24.0	24.5
10	22.0	21.0	21.5	29.0	26.0	27.0	---	---	---	26.0	23.5	24.5
11	22.5	21.0	22.0	27.5	26.5	27.0	26.5	26.0	26.5	26.0	23.0	24.5
12	23.0	21.5	22.0	27.0	25.5	26.5	26.5	26.0	26.0	24.5	23.5	24.0
13	22.5	22.0	22.0	26.5	25.5	26.0	27.0	26.0	26.5	24.0	23.0	23.5
14	22.5	21.5	22.0	26.0	22.0	24.5	26.0	25.5	26.0	22.5	22.0	22.5
15	23.5	21.5	22.0	26.5	21.0	24.0	26.0	25.5	25.5	24.0	22.0	23.0
16	24.0	21.5	22.0	28.0	20.5	24.0	27.0	25.0	26.0	23.5	22.0	23.0
17	24.5	21.5	22.5	25.0	25.5	23.5	26.5	24.5	25.5	23.5	23.0	23.5
18	24.5	22.0	23.0	26.0	24.0	25.0	27.5	24.5	26.0	23.5	23.0	23.5
19	25.0	22.5	24.0	24.5	---	24.5	27.0	25.0	25.5	23.0	22.0	22.5
20	26.0	23.5	24.5	26.0	24.0	24.5	26.5	25.0	26.0	22.0	21.5	22.0
21	25.5	24.0	24.5	27.5	24.0	25.5	27.5	25.5	26.5	21.5	21.5	21.5
22	26.0	24.5	25.0	27.0	24.0	25.0	28.0	26.0	27.0	21.5	21.5	21.5
23	26.0	25.0	25.5	26.5	24.0	25.0	27.0	25.5	26.0	21.5	20.5	21.0
24	27.0	24.5	25.5	26.5	24.5	25.5	25.5	23.5	24.5	21.0	20.5	20.5
25	27.5	25.0	26.0	26.5	25.5	26.0	25.0	23.5	24.0	20.5	19.5	20.0
26	26.5	25.5	26.0	27.5	25.5	25.5	24.5	23.5	24.0	20.0	19.0	19.5
27	26.5	25.5	26.0	---	---	---	23.5	22.5	23.0	19.0	18.5	18.5
28	27.0	25.5	26.0	---	---	---	22.5	22.0	22.0	18.5	18.0	18.5
29	25.5	25.0	25.5	---	---	---	24.5	22.0	22.5	19.0	18.0	18.5
30	27.0	25.0	26.0	---	---	---	23.5	22.5	23.0	19.5	18.5	19.0
31	---	---	---	---	---	---	24.5	22.5	23.5	---	---	---
MONTH	27.5	15.0	22.5	29.0	20.5	25.5	28.0	22.0	25.0	26.0	18.0	22.0
YEAR	29.0	0	11.5									

01100000 MERRIMACK RIVER BELOW CONCORD RIVER, AT LOWELL, MASS.

(International Hydrological Decade River Station)

LOCATION.--Lat 42°38'45", long 71°17'56", Middlesex County, at gaging station on right bank 1,100 ft downstream from Concord River at Lowell. Samples for chemical analyses and suspended-sediment loads taken from Hunts Falls Bridge, 300 ft upstream from gage.

DRAINAGE AREA.--Total above gage, 4,635 sq mi; net above gage, 4,425 sq mi (diversions as needed from 210 sq mi for use of Boston metropolitan district and city of Worcester).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1971 (partial-record station).
Water temperatures: January 1966 to September 1967.
Sediment records: April 1967 to September 1971.

EXTREMES.--1970-71:
Sediment concentrations: Maximum daily, 98 mg/l May 5; minimum daily, 1 mg/l many days during year.
Sediment discharges: Maximum daily, 7,810 tons May 5; minimum daily, 8.1 tons Nov. 12.

Period of record:
Sediment concentrations: Maximum daily, 270 mg/l Feb. 13, 1970; minimum daily, 1 mg/l on several days each year.
Sediment discharges: Maximum daily, 29,000 tons Feb. 13, 1970; minimum daily, 2.0 tons July 20, 27, 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
DEC.												
07...	7300	6.0	100	40	5.0	1.0	8.9	.9	--	10	10	11
MAR.												
02...	9360	6.5	150	130	6.0	1.1	14	1.1	.77	10	12	23
JUNE												
07...	4280	4.3	340	80	6.1	.9	10	.9	.06	10	11	15
SEP.												
13...	2520	4.1	280	90	8.0	1.4	16	2.0	1.3	25	15	17

DATE	DISSOLVED FLUORIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	LOSS ON IGNITION (MG/L)
DEC.												
07...	.0	.14	.4	-	54	51	16	8	93	6.5	10	11
MAR.												
02...	.1	.021	.3	.20	91	72	20	12	131	6.8	16	13
JUNE												
07...	.0	.010	1.1	—	64	58	19	11	103	6.7	12	18
SEP.												
13...	.0	--	2.2	.29	--	89	26	5	148	6.4	--	—

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT., 1970								
16...	1650	0	6	0	4	12	4.7	40

01100000 MERRIMACK RIVER BELOW CONCORD RIVER, AT LOWELL, MASS.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1990	12	64	3350	4	36	5020	8	108
2	2380	7	45	3830	2	21	4830	7	91
3	2080	16	90	3200	5	43	4450	10	120
4	1330	12	43	2880	2	16	5170	2	28
5	2440	7	46	3450	4	37	7440	4	80
6	3350	12	109	3620	2	20	7410	11	220
7	3130	9	76	3010	4	33	6880	5	93
8	3330	11	99	2800	3	23	5860	2	32
9	3270	12	106	3480	4	38	4600	15	186
10	3060	13	107	3640	2	20	4710	4	51
11	2400	6	39	3280	2	18	4680	18	227
12	2490	12	81	3000	1	8.1	4360	18	212
13	2440	5	33	3330	1	9.0	4690	2	25
14	1640	11	49	2630	3	21	5090	22	302
15	1700	7	32	2790	5	38	5280	16	228
16	2190	9	53	4340	4	47	5070	9	123
17	2050	10	55	4260	1	12	4810	2	26
18	2330	8	50	3750	1	10	4580	16	198
19	2390	15	97	4040	1	11	4320	5	58
20	2560	7	48	4070	1	11	5190	2	28
21	2340	6	38	4900	1	13	4940	8	107
22	2360	7	45	6480	1	17	4640	2	25
23	3030	9	74	8040	1	22	4250	1	11
24	5490	9	133	7270	2	39	4500	2	24
25	6620	8	143	7390	2	40	3570	3	29
26	6640	6	108	6270	1	17	4210	5	57
27	5720	1	15	5220	2	28	4810	7	91
28	4920	1	13	4430	2	24	4780	7	90
29	3980	4	43	4000	6	65	4670	6	76
30	3390	4	37	4960	1	13	4780	5	65
31	2840	4	31	--	—	--	4460	2	24
TOTAL	95880	--	2002	127710	—	750.1	154050	—	3035

	JANUARY			FEBRUARY			MARCH		
1	3430	1	9.3	4330	2	23	8880	6	144
2	4220	3	34	3900	2	21	9240	7	175
3	4070	5	55	3750	2	20	9520	10	257
4	4360	6	71	3570	2	19	9200	13	323
5	4450	2	24	3680	4	40	8260	11	245
6	4810	2	26	3210	5	43	8080	9	196
7	4990	3	40	3350	3	27	7960	13	279
8	4940	3	40	3850	1	10	7960	17	365
9	4520	2	24	3880	4	42	7690	20	415
10	4230	2	23	4080	2	22	7640	14	289
11	4330	1	12	4150	1	11	7620	18	370
12	4300	1	12	4430	3	36	7540	14	285
13	4330	1	12	4250	5	57	6920	10	187
14	3620	3	29	5040	3	41	7160	6	116
15	3790	5	51	5710	1	15	7540	16	326
16	4590	4	50	6820	3	55	8920	7	169
17	4000	3	32	6890	5	93	12000	6	194
18	4000	3	32	7430	4	80	14400	14	544
19	3630	3	29	7400	4	80	14400	34	1320
20	3980	3	32	6840	6	111	13900	16	600
21	3750	3	30	6210	5	84	13100	2	71
22	3480	4	38	6550	5	88	12400	10	335
23	3280	6	53	6400	7	121	11500	11	342
24	3310	6	54	6280	12	203	10900	6	177
25	4040	6	65	6230	4	67	10800	8	233
26	3870	5	52	6030	4	65	10200	5	138
27	4840	4	52	5830	5	79	9720	6	157
28	5190	4	56	6500	6	105	9680	9	235
29	4440	4	48	—	--	—	10000	15	405
30	4430	4	48	—	--	--	10600	8	229
31	4020	3	33	--	—	--	11400	10	308
TOTAL	129240	—	1166.3	146590	--	1658	305130	--	9429

01100000 MERRIMACK RIVER BELOW CONCORD RIVER, AT LOWELL, MASS.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11700	12	379	19100	15	774	7170	2	39
2	12300	1	33	18000	16	778	6770	8	146
3	15300	29	1200	17400	16	752	5990	6	97
4	20700	84	4690	21500	26	1510	5680	8	123
5	23300	59	3710	29500	98	7810	5160	8	111
6	23300	53	3330	30600	77	6360	5100	6	83
7	22300	34	2050	26200	37	2620	4720	11	140
8	22200	23	1380	21700	26	1520	4120	4	44
9	20300	19	1040	19300	19	990	4310	9	105
10	18300	12	593	19000	13	667	4370	6	71
11	20100	15	814	19200	19	985	4310	6	70
12	24100	26	1690	17700	22	1050	3780	7	71
13	26700	37	2670	17800	24	1150	3250	8	70
14	29900	59	4760	20300	26	1430	3150	8	68
15	31200	83	6990	21300	24	1380	2730	7	52
16	29400	65	5160	18800	23	1170	2770	14	105
17	25300	25	1710	17000	21	964	2580	7	49
18	21400	7	404	15300	33	1360	2380	7	45
19	19600	30	1590	14600	18	710	1740	6	28
20	20100	10	543	14100	17	647	1580	9	38
21	23300	18	1130	13200	18	642	2080	12	67
22	26400	30	2140	13100	16	566	2180	8	47
23	26200	37	2620	12900	18	627	2300	4	25
24	24100	17	1110	12300	21	697	2340	4	25
25	21400	18	1040	11300	20	610	2290	4	25
26	19900	16	860	9500	10	257	2040	2	11
27	19300	10	521	8960	10	242	1860	6	30
28	18000	10	486	9570	13	336	3030	11	90
29	16900	10	456	8310	5	112	2960	3	24
30	18000	15	729	7180	5	97	2590	5	35
31	--	--	--	7130	3	58	--	--	--
TOTAL	651000	--	55928	511850	--	38871	105330	--	1934

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2500	26	176	2980	22	177	[illegible]	7	46
2	2370	29	186	2880	16	124	2340	6	38
3	1920	2	10	3100	11	92	2370	9	58
4	1760	4	19	3390	9	82	1440	7	27
5	782	20	42	3760	10	102	1080	5	15
6	2190	9	53	3120	16	135	337	5	4.5
7	2240	13	79	3040	1	8.2	2180	5	29
8	2150	10	58	2370	8	51	2160	6	35
9	1760	49	233	2330	14	88	2030	6	33
10	1160	11	34	2340	9	57	1760	7	33
11	618	13	22	2240	6	36	960	2	5.2
12	1540	23	96	2530	6	41	901	9	22
13	1610	13	57	2260	6	37	1780	8	38
14	1490	14	56	1570	6	25	2160	7	41
15	1330	20	72	806	5	11	2510	7	47
16	1240	10	33	2160	6	35	3390	2	18
17	588	25	40	2090	5	28	3070	3	25
18	518	15	21	2170	4	23	1910	2	10
19	1420	14	54	1870	12	61	2560	2	14
20	1540	19	79	1380	6	22	3220	11	96
21	1580	14	60	1020	9	25	2520	8	54
22	1550	15	63	970	12	31	2510	5	34
23	1620	14	61	1790	15	72	2500	10	68
24	1220	12	40	1700	17	78	2310	6	37
25	1080	15	44	1360	8	29	1440	1	3.9
26	1720	11	51	1050	11	31	1500	9	36
27	2100	24	136	1070	14	40	2380	10	64
28	1850	15	75	988	18	48	2410	4	26
29	1810	13	64	1140	4	12	2180	10	59
30	1780	14	67	3240	5	44	1870	9	45
31	1540	15	62	2650	1	7.2	--	--	--
TOTAL	48576	--	2143	65364	--	1652.4	62208	--	1061.6

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	2402928
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	119530.4

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.

LOCATION.--Lat 42°48'38", long 71°00'02", Essex County, multiple-parameter monitor at Bridge Street Bridge, 0.9 mile northwest of West Newbury.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1971.
Water temperatures: October 1968 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, greater than 1000 micromhos Sept. 7; minimum, 56 micromhos May 7.
pH: Maximum, 8.6 Oct. 10; minimum, 5.6 Oct. 1.
Dissolved oxygen: Maximum, 18.2 mg/l Apr. 9; minimum, 0.3 mg/l Oct. 2.
Water temperatures: Maximum, 27.5°C July 1, Aug. 10, 11; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, greater than 1000 micromhos Aug. 17, 18, 20, 1970, Sept. 7, 1971; minimum, 50 micromhos Apr. 19, 1970.
pH: Maximum, 8.6 Oct. 10, 1970; minimum, 5.4 Sept. 30, 1970.
Dissolved oxygen: Maximum, 18.2 mg/l Apr. 9, 1971; minimum, 0.1 mg/l Oct. 21, 1968, Sept. 11, 1970.
Water temperatures: Maximum, 29.5°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Dissolved-oxygen probe not operating Dec. 6 to Jan. 31, Feb. 18 to Apr. 8. Water-temperature probe not operating July 2-15, Aug. 21 to Sept. 2.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)
OCT., 1970							
14...	4	5	<.5	70	0	1	0

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	214	160	169	118	108	112	113	104	107	143	100	135
2	216	167	174	119	109	114	115	105	110	145	132	138
3	216	154	173	131	112	121	125	111	116	142	133	136
4	226	147	167	134	122	127	130	119	122	139	130	134
5	170	141	155	133	123	128	126	110	119	150	124	132
6	158	141	146	---	---	---	122	110	114	151	137	144
7	159	146	152	---	---	---	120	107	114	168	141	156
8	151	134	143	---	---	---	109	103	106	177	162	169
9	138	132	134	158	133	144	113	106	110	168	156	162
10	136	118	128	---	---	---	134	109	118	164	146	152
11	146	118	123	---	---	---	137	122	130	153	143	148
12	162	119	125	---	---	---	141	125	134	162	147	152
13	177	118	126	---	---	---	140	123	130	160	143	151
14	195	119	134	---	---	---	137	120	129	157	141	148
15	642	121	180	---	---	---	136	120	129	172	142	157
16	551	124	184	---	---	---	128	119	124	172	160	166
17	316	124	153	---	---	---	126	117	123	169	156	163
18	186	125	136	---	---	---	---	---	---	167	159	164
19	163	127	135	144	134	140	---	---	---	168	160	165
20	145	135	140	149	118	140	---	---	---	---	---	---
21	146	129	138	150	141	146	141	132	139	---	---	---
22	136	125	130	142	118	134	151	134	144	---	---	---
23	135	121	129	128	121	125	152	142	148	---	---	---
24	132	119	124	124	106	113	153	137	145	---	---	---
25	144	130	138	110	106	108	148	134	140	---	---	---
26	134	99	112	109	102	106	144	100	139	---	---	---
27	121	101	113	104	100	103	148	141	144	192	165	179
28	121	117	118	106	101	104	148	127	138	196	165	180
29	121	109	115	111	104	108	136	126	130	190	175	182
30	119	106	112	111	100	107	142	127	132	221	183	192
31	111	100	109	---	---	---	143	130	136	216	142	198
MONTH	642	99	135	---	---	---	153	100	128	---	---	---

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	203	170	184	182	161	169	131	125	127	73	70	71
2	202	180	186	167	154	159	126	122	124	74	71	73
3	201	178	187	159	149	156	122	116	120	74	69	71
4	187	174	181	157	148	151	115	100	108	71	70	70
5	195	174	185	168	147	155	99	90	94	72	70	71
6	213	194	204	153	150	152	90	85	88	71	57	61
7	---	---	---	154	148	151	90	84	87	59	56	58
8	---	---	---	152	148	150	94	88	90	63	59	60
9	214	177	192	160	152	155	91	87	89	66	62	64
10	207	181	196	164	158	160	92	88	90	74	65	70
11	200	191	194	165	160	162	95	59	89	77	73	75
12	206	179	190	166	160	162	90	83	87	79	75	77
13	205	179	193	164	159	161	83	79	81	79	77	78
14	197	168	184	164	157	161	78	72	76	80	77	79
15	196	174	185	163	152	159	76	72	74	78	75	76
16	192	167	178	164	156	159	74	71	72	76	73	74
17	175	169	173	159	152	156	75	72	73	80	73	76
18	171	165	168	153	141	147	73	71	72	85	78	82
19	169	167	168	142	130	137	75	70	73	93	88	90
20	166	158	162	---	---	---	83	74	79	96	93	95
21	164	152	161	---	---	---	79	71	76	99	95	97
22	---	---	---	---	---	---	72	66	67	101	99	100
23	---	---	---	---	---	---	68	66	67	103	99	101
24	---	---	---	---	---	---	68	66	67	101	86	95
25	---	---	---	143	135	141	67	66	67	90	86	88
26	184	167	172	140	136	138	66	64	65	95	89	93
27	185	162	175	140	136	138	66	64	65	102	94	98
28	186	164	174	140	136	138	67	65	66	106	102	103
29	---	---	---	138	132	137	68	66	67	105	101	103
30	---	---	---	137	133	135	70	68	69	104	100	102
31	---	---	---	138	128	135	---	---	---	105	98	102
MONTH	214	152	[illegible]	182	128	151	131	55	82	106	56	82

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	102	98	100	163	137	142	207	156	166	---	---	---
2	109	102	106	---	---	---	206	155	166	---	---	---
3	113	100	109	---	---	---	165	156	162	186	136	148
4	118	114	117	---	---	---	166	142	156	190	122	140
5	120	117	119	---	---	---	162	135	141	356	123	157
6	126	118	122	---	---	---	150	132	136	959	124	281
7	125	121	123	---	---	---	161	132	137	>1000	128	317
8	127	120	123	---	---	---	188	132	141	949	139	256
9	130	121	126	---	---	---	217	129	145	397	140	177
10	130	120	127	---	---	---	208	125	142	305	141	165
11	138	126	133	---	---	---	207	124	139	301	140	160
12	137	125	132	---	---	---	172	127	136	381	140	173
13	137	124	129	---	---	---	163	130	135	444	141	184
14	135	127	130	---	---	---	158	131	135	225	151	165
15	137	130	133	---	---	---	199	130	139	182	161	165
16	140	133	137	---	---	---	193	130	143	174	162	167
17	149	139	143	---	---	---	192	131	147	177	164	171
18	164	140	146	---	---	---	208	141	150	179	159	165
19	---	---	---	---	---	---	180	137	147	182	160	166
20	---	---	---	707	167	238	224	168	183	169	162	166
21	---	---	---	692	165	214	---	---	---	---	---	---
22	159	153	155	409	167	198	---	---	---	---	---	---
23	168	122	153	381	173	203	---	---	---	141	118	134
24	173	137	149	367	176	201	---	---	---	140	100	120
25	184	130	160	312	170	195	---	---	---	113	100	108
26	175	136	166	463	162	221	---	---	---	116	102	105
27	169	125	143	314	156	180	---	---	---	112	104	108
28	162	116	142	174	153	159	---	---	---	113	109	111
29	161	153	157	165	152	156	---	---	---	116	111	113
30	170	140	154	158	150	153	---	---	---	118	112	113
31	---	---	---	157	148	153	---	---	---	---	---	---
MONTH	184	98	134	---	---	---	---	---	---	>1000	100	163
YEAR	>1000	56	135									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	5.6	6.1	7.4	7.2	7.3	6.7	6.5	6.6	6.8	6.6	6.7
2	6.6	6.2	6.4	7.3	6.8	7.0	7.0	6.6	6.7	6.7	6.2	6.6
3	6.9	6.4	6.6	7.0	6.7	6.8	6.8	6.6	6.7	6.7	6.7	6.7
4	6.4	6.1	6.3	6.9	6.5	6.7	6.9	6.6	6.8	6.8	6.6	6.7
5	6.4	5.9	6.1	6.7	6.5	6.6	6.8	6.7	6.7	6.8	6.7	6.7
6	6.[illegible]	5.8	6.1	---	---	---	6.8	6.7	6.7	7.0	6.7	6.8
7	8.1	6.3	6.9	---	---	---	6.8	6.7	6.7	7.2	7.0	7.1
8	8.1	7.0	7.5	---	---	---	7.0	6.8	6.9	7.2	6.9	7.0
9	8.1	6.6	7.1	6.8	6.7	6.7	7.1	6.8	6.9	7.1	6.7	6.8
10	8.6	7.6	8.2	---	---	---	7.4	6.9	7.0	6.8	6.6	6.7
11	8.3	7.4	7.8	---	---	---	7.3	6.9	7.0	6.8	6.7	6.7
12	7.9	6.9	7.3	---	---	---	7.1	6.8	6.9	7.0	6.7	6.8
13	7.3	6.6	6.9	---	---	---	6.9	6.7	6.8	7.0	6.7	6.8
14	6.7	6.4	6.6	---	---	---	7.0	6.7	6.8	7.1	6.7	6.9
15	6.6	6.5	6.6	---	---	---	7.1	6.8	6.9	7.0	6.6	6.8
16	6.6	6.2	6.3	---	---	---	7.2	6.8	6.9	6.6	6.4	6.5
17	6.4	6.1	6.3	---	---	---	7.1	6.9	6.9	6.5	6.4	6.4
18	6.5	6.4	6.4	---	---	---	7.0	6.8	6.9	6.5	6.3	6.4
19	6.6	6.5	6.5	6.7	6.6	6.7	6.9	6.7	6.8	6.6	6.3	6.4
20	6.6	6.5	6.5	6.7	6.6	6.6	6.8	6.7	6.7	---	---	---
21	6.7	6.5	6.6	6.8	6.6	6.7	6.8	6.7	6.7	---	---	---
22	6.7	6.6	6.6	6.6	6.5	6.6	7.0	6.7	6.8	---	---	---
23	7.4	6.6	7.0	6.7	6.6	6.6	7.1	6.9	6.9	---	---	---
24	7.5	7.1	7.3	6.6	6.5	6.5	7.0	6.8	6.9	---	---	---
25	7.7	7.5	7.6	6.6	6.4	6.5	7.0	6.6	6.8	---	---	---
26	7.7	7.6	7.6	6.7	6.6	6.6	6.7	6.6	6.6	---	---	---
27	7.8	7.2	7.5	6.6	6.5	6.6	6.7	6.5	6.6	7.1	6.7	6.9
28	7.8	7.0	7.3	6.6	6.5	6.6	6.6	6.5	6.6	7.0	6.7	6.8
29	7.7	7.2	7.5	6.6	6.5	6.5	6.8	6.6	6.7	7.1	6.7	6.8
30	7.7	7.3	7.4	6.6	6.5	6.5	6.9	6.7	6.7	7.2	6.7	6.9
31	7.4	7.2	7.3	---	---	---	6.9	6.7	6.8	7.1	6.6	6.7
MONTH	8.6	5.6	6.9	---	---	---	7.4	6.5	6.8	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.5	6.7	6.9	6.9	6.9	6.6	6.5	6.5	---	---	---
2	6.9	6.6	6.8	6.8	6.7	6.8	6.6	6.5	6.5	---	---	---
3	6.9	6.6	6.7	7.0	6.7	6.9	6.5	6.4	6.5	---	---	---
4	6.9	6.6	6.8	6.9	6.8	6.9	6.4	6.0	6.4	---	---	---
5	6.9	6.6	6.7	7.0	6.7	6.8	6.5	6.2	6.4	---	---	---
6	---	---	---	---	---	---	6.6	6.4	6.5	---	---	---
7	---	---	---	---	---	---	6.7	6.5	6.6	---	---	---
8	---	---	---	---	---	---	6.7	6.6	6.6	---	---	---
9	6.8	6.6	6.7	---	---	---	6.6	6.5	6.6	---	---	---
10	6.9	6.7	6.7	---	---	---	6.6	6.5	6.5	---	---	---
11	7.1	6.8	6.9	6.7	6.7	6.7	6.6	6.4	6.6	6.2	6.0	6.1
12	7.1	6.8	6.9	6.7	6.6	6.7	---	---	---	6.1	6.0	6.0
13	7.1	6.9	7.0	6.6	6.5	6.6	6.3	6.2	6.2	6.0	5.9	6.0
14	7.0	6.8	6.8	6.6	6.5	6.6	6.4	6.1	6.2	6.0	5.9	6.0
15	6.9	6.6	6.7	6.6	6.6	6.6	6.3	6.2	6.2	6.0	5.9	6.0
16	7.1	6.6	6.8	6.7	6.6	6.6	6.2	6.1	6.1	5.9	5.9	5.9
17	7.0	6.7	6.8	7.0	6.6	6.9	6.4	6.1	6.3	6.2	6.0	6.1
18	6.9	6.5	6.7	6.9	6.6	6.7	6.4	6.2	6.3	6.2	6.0	6.1
19	6.5	6.4	6.5	6.6	6.6	6.6	6.6	6.3	6.5	6.2	6.0	6.1
20	6.4	6.3	6.3	---	---	---	6.9	6.3	6.4	6.1	6.0	6.0
21	---	---	---	---	---	---	6.5	6.1	6.3	6.1	5.9	6.0
22	---	---	---	---	---	---	6.4	6.1	6.2	6.0	5.9	6.0
23	---	---	---	---	---	---	6.3	6.0	6.1	6.1	6.0	6.0
24	---	---	---	---	---	---	---	---	---	6.3	6.0	6.1
25	---	---	---	6.7	6.5	6.5	---	---	---	6.2	6.0	6.1
26	7.3	7.0	7.1	6.6	6.5	6.5	---	---	---	6.1	6.0	6.0
27	7.1	6.9	7.0	6.6	6.5	6.5	---	---	---	6.0	5.9	6.0
28	6.9	6.9	6.9	6.7	6.5	6.6	---	---	---	6.1	5.9	6.0
29	---	---	---	6.7	6.6	6.6	---	---	---	6.2	5.9	6.0
30	---	---	---	6.8	6.6	6.6	---	---	---	6.0	5.9	6.0
31	---	---	---	6.7	6.5	6.6	---	---	---	6.1	6.0	6.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.1	5.9	6.0	6.3	6.1	6.2	6.6	6.3	6.4	---	---	---
2	6.1	5.9	6.0	---	---	---	6.5	6.3	6.4	---	---	---
3	6.3	6.0	6.2	---	---	---	6.4	6.2	6.3	6.5	6.4	6.5
4	6.3	6.1	6.2	---	---	---	6.4	6.2	6.3	6.5	6.2	6.4
5	6.3	6.0	6.1	---	---	---	6.4	6.2	6.2	6.6	6.2	6.4
6	6.3	6.0	6.1	---	---	---	6.4	6.1	6.3	6.6	6.2	6.4
7	6.4	6.1	6.2	---	---	---	6.5	6.2	6.3	6.8	6.3	6.5
8	6.4	6.1	6.2	---	---	---	6.7	6.2	6.4	6.7	6.3	6.5
9	6.2	6.0	6.1	---	---	---	7.1	6.3	6.6	6.7	6.3	6.4
10	6.2	6.0	6.1	---	---	---	7.3	6.4	6.7	6.6	6.2	6.4
11	6.3	6.0	6.2	---	---	---	6.7	6.3	6.5	6.6	6.3	6.4
12	6.4	6.1	6.2	---	---	---	6.8	6.3	6.5	6.5	6.3	6.4
13	6.3	6.1	6.2	---	---	---	6.9	6.3	6.5	6.5	6.3	6.4
14	6.4	6.1	6.2	---	---	---	6.8	6.4	6.5	6.4	6.3	6.3
15	6.3	6.1	6.2	---	---	---	6.7	6.4	6.5	6.5	6.3	6.4
16	6.2	6.0	6.1	8.2	7.2	7.8	7.1	6.5	6.7	6.5	6.3	6.4
17	6.1	5.9	6.0	7.2	6.7	6.9	7.0	6.4	6.7	6.5	6.4	6.4
18	6.2	5.9	6.1	---	---	---	6.8	6.3	6.6	6.4	6.3	6.4
19	---	---	---	---	---	---	6.7	6.3	6.5	6.4	6.3	6.4
20	---	---	---	7.0	6.7	6.9	6.7	6.4	6.5	6.4	6.3	6.3
21	---	---	---	7.1	6.4	6.7	---	---	---	---	---	---
22	6.4	6.3	6.4	6.9	6.4	6.7	---	---	---	---	---	---
23	6.3	6.1	6.2	7.1	6.4	6.7	---	---	---	6.3	6.1	6.2
24	6.2	6.0	6.1	7.1	6.5	6.7	---	---	---	6.2	6.1	6.1
25	6.2	6.0	6.1	6.9	6.5	6.7	---	---	---	6.2	6.1	6.1
26	6.2	6.0	6.1	7.1	6.4	6.7	---	---	---	6.2	6.0	6.1
27	6.2	6.0	6.1	6.8	6.3	6.6	---	---	---	6.2	6.0	6.1
28	6.4	6.0	6.3	6.8	6.3	6.5	---	---	---	6.2	6.1	6.2
29	6.3	6.1	6.2	6.7	6.3	6.5	---	---	---	6.3	6.1	6.2
30	6.4	6.1	6.2	6.4	6.3	6.3	---	---	---	6.4	6.1	6.2
31	---	---	---	6.5	6.2	6.3	---	---	---	---	---	---
MONTH	6.4	5.9	6.2	---	---	---	---	---	---	6.8	6.0	6.3
YEAR	8.6	5.6	6.5									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.2	1.0	1.4	---	---	---	15.6	14.2	14.9	---	---	---
2	2.2	0.3	1.3	---	---	---	14.9	13.4	14.1	---	---	---
3	4.7	1.1	2.5	11.6	9.9	10.6	14.7	13.3	13.9	---	---	---
4	6.1	2.9	4.3	9.6	8.0	8.5	14.7	12.0	13.2	---	---	---
5	8.4	4.0	5.6	8.7	7.8	8.1	15.6	14.1	14.8	---	---	---
6	8.2	5.1	6.9	---	---	---	---	---	---	---	---	---
7	7.4	5.3	6.4	---	---	---	---	---	---	---	---	---
8	8.1	5.3	6.9	---	---	---	---	---	---	---	---	---
9	8.7	6.0	7.4	9.6	7.6	8.9	---	---	---	---	---	---
10	8.8	5.7	6.9	---	---	---	---	---	---	---	---	---
11	7.3	4.9	6.0	---	---	---	---	---	---	---	---	---
12	9.6	4.8	6.5	---	---	---	---	---	---	---	---	---
13	8.6	5.3	7.0	---	---	---	---	---	---	---	---	---
14	6.7	4.1	5.5	---	---	---	---	---	---	---	---	---
15	6.5	3.0	4.6	---	---	---	---	---	---	---	---	---
16	5.3	2.2	3.5	---	---	---	---	---	---	---	---	---
17	5.5	2.0	3.4	---	---	---	---	---	---	---	---	---
18	6.7	3.9	5.3	---	---	---	---	---	---	---	---	---
19	10.0	5.9	7.4	10.3	8.6	9.2	---	---	---	---	---	---
20	5.6	6.2	8.2	10.2	8.6	9.3	---	---	---	---	---	---
21	7.9	5.8	6.8	10.9	8.7	9.6	---	---	---	---	---	---
22	8.0	5.4	6.5	11.8	10.2	10.8	---	---	---	---	---	---
23	7.0	5.2	5.7	12.6	11.2	12.0	---	---	---	---	---	---
24	7.7	5.8	6.7	13.6	11.8	12.6	---	---	---	---	---	---
25	12.1	7.5	9.9	14.8	13.3	14.1	---	---	---	---	---	---
26	14.1	11.5	12.8	15.6	14.3	15.0	---	---	---	---	---	---
27	14.3	12.1	12.9	15.9	14.7	15.3	---	---	---	---	---	---
28	13.9	11.8	12.8	15.7	13.8	14.8	---	---	---	---	---	---
29	13.6	11.7	12.6	15.8	13.9	14.8	---	---	---	---	---	---
30	13.7	11.1	12.3	15.8	13.8	14.9	---	---	---	---	---	---
31	12.4	11.5	12.0	---	---	---	---	---	---	---	---	---
MONTH	14.3	0.3	7.0	---	---	---	---	---	---	---	---	---

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.7	15.5	---	---	---	---	---	---	---	---	---
2	15.7	14.7	15.2	---	---	---	---	---	---	---	---	---
3	15.3	14.4	14.8	---	---	---	---	---	---	---	---	---
4	15.2	14.1	14.5	---	---	---	---	---	---	---	---	---
5	14.7	13.5	14.0	---	---	---	---	---	---	---	---	---
6	14.1	13.7	13.9	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	15.0	13.4	14.3	---	---	---	18.2	15.8	17.5	---	---	---
10	15.9	14.4	15.0	---	---	---	18.1	15.5	16.9	---	---	---
11	15.5	13.7	14.7	---	---	---	16.3	15.3	16.0	11.7	10.6	11.2
12	14.8	12.7	13.9	---	---	---	---	---	---	12.0	10.0	11.1
13	14.3	12.1	13.1	---	---	---	13.8	13.1	13.5	---	---	---
14	16.5	11.9	13.9	---	---	---	14.6	13.7	14.1	---	---	---
15	16.4	15.6	16.0	---	---	---	14.5	14.0	14.3	---	---	---
16	16.5	15.5	15.9	---	---	---	16.1	14.5	15.5	---	---	---
17	16.3	15.3	15.9	---	---	---	16.2	14.8	15.7	11.0	10.3	10.5
18	---	---	---	---	---	---	16.1	15.2	15.8	11.0	9.4	10.3
19	---	---	---	---	---	---	15.2	13.5	14.4	10.1	8.9	9.7
20	---	---	---	---	---	---	13.8	12.3	13.2	9.6	8.9	9.3
21	---	---	---	---	---	---	12.8	11.5	12.3	9.1	8.5	8.9
22	---	---	---	---	---	---	12.8	12.2	12.5	9.4	8.7	9.0
23	---	---	---	---	---	---	12.7	12.4	12.5	9.6	9.2	9.4
24	---	---	---	---	---	---	13.0	11.5	12.5	10.0	9.3	11.2
25	---	---	---	---	---	---	12.7	12.4	12.5	9.6	9.1	9.4
26	---	---	---	---	---	---	12.8	12.0	12.6	9.1	8.7	9.0
27	---	---	---	---	---	---	12.8	11.9	12.5	9.0	8.5	8.8
28	---	---	---	---	---	---	12.7	12.4	12.5	9.0	8.5	8.5
29	---	---	---	---	---	---	---	---	---	9.2	8.6	8.9
30	---	---	---	---	---	---	---	---	---	9.2	8.6	9.0
31	---	---	---	---	---	---	---	---	---	9.2	8.6	9.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.2	8.6	9.0	4.1	2.7	3.4	6.3	2.6	4.4	---	---	---
2	9.1	8.1	8.6	---	---	---	5.6	2.9	4.3	---	---	---
3	8.6	7.8	8.2	---	---	---	4.7	2.8	3.8	5.7	4.1	5.0
4	8.3	7.1	7.7	---	---	---	5.0	1.9	3.1	5.6	3.0	4.6
5	8.4	7.3	7.7	---	---	---	5.1	1.6	3.0	6.1	3.1	4.7
6	8.6	7.2	7.7	---	---	---	5.5	2.5	4.5	5.8	3.3	4.7
7	8.5	7.2	8.0	---	---	---	6.5	4.2	5.2	5.9	2.3	4.2
8	8.3	6.6	7.5	---	---	---	7.2	4.2	5.9	6.1	2.2	4.0
9	7.2	4.8	6.1	---	---	---	8.1	5.4	6.7	5.6	2.0	3.6
10	7.0	4.7	6.1	---	---	---	8.3	4.9	6.8	5.7	2.0	3.6
11	7.8	5.5	6.5	---	---	---	7.6	4.2	6.1	5.7	2.4	3.8
12	7.9	6.0	7.0	---	---	---	7.4	3.4	5.2	4.5	2.2	3.4
13	7.4	5.7	6.6	---	---	---	7.3	3.6	5.2	4.4	2.0	3.0
14	7.2	5.4	6.5	---	---	---	7.1	3.3	4.9	3.6	1.1	2.4
15	6.7	5.0	6.0	---	---	---	6.7	3.2	4.6	2.6	1.0	1.9
16	5.6	4.1	5.0	10.5	9.4	9.9	7.9	3.8	5.5	2.4	1.2	2.0
17	5.2	3.5	4.4	9.5	8.0	8.6	8.2	3.2	5.5	2.7	1.5	2.0
18	5.5	3.5	4.6	---	---	---	7.5	1.9	4.6	2.6	1.5	2.0
19	---	---	---	---	---	---	7.1	2.8	4.6	2.6	1.4	1.9
20	---	---	---	8.3	6.4	7.9	5.7	2.6	3.7	2.8	1.6	2.1
21	---	---	---	9.4	5.4	7.8	---	---	---	---	---	---
22	5.0	3.1	4.1	8.8	6.1	7.8	---	---	---	---	---	---
23	4.5	1.5	2.8	9.6	6.4	8.0	---	---	---	---	---	---
24	3.1	1.3	2.2	9.5	7.0	8.1	---	---	---	---	---	---
25	3.6	0.9	2.3	8.6	6.7	7.7	---	---	---	---	---	---
26	4.5	1.4	3.0	8.7	6.0	7.3	---	---	---	---	---	---
27	4.6	2.2	3.5	7.7	3.6	6.5	---	---	---	---	---	---
28	5.0	2.3	3.7	7.7	2.8	5.5	---	---	---	---	---	---
29	5.1	2.7	3.7	7.3	3.9	5.6	---	---	---	---	---	---
30	4.8	2.8	3.9	5.7	3.3	4.5	---	---	---	---	---	---
31	---	---	---	5.6	1.6	3.7	---	---	---	---	---	---
MONTH	9.2	0.9	5.6	---	---	---	---	---	---	---	---	---
YEAR	18.2	0.3	8.4									

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	19.0	19.5	10.5	9.5	10.0	4.5	4.0	4.0	1.5	1.0	1.0
2	19.0	18.5	19.0	10.0	9.5	10.0	5.0	4.0	4.5	1.5	1.0	1.0
3	19.0	18.5	19.0	10.0	9.5	10.0	5.0	4.0	4.5	2.0	1.0	1.0
4	19.0	18.0	18.5	10.5	10.0	10.5	6.0	4.5	5.0	2.0	1.0	1.0
5	18.0	17.0	17.5	10.5	10.0	10.0	4.0	3.0	3.5	2.0	1.0	1.5
6	17.5	16.5	17.0	---	---	---	4.0	3.0	3.5	2.5	1.0	1.5
7	18.0	17.0	17.5	---	---	---	3.0	1.5	2.5	1.5	0.0	0.5
8	18.5	17.5	18.0	---	---	---	1.5	0.5	1.0	0.0	0.0	0.0
9	19.0	17.5	18.0	9.0	8.5	9.0	0.5	0.0	0.5	0.0	0.0	0.0
10	18.0	17.5	18.0	---	---	---	0.5	0.0	0.5	0.0	0.0	0.0
11	17.5	17.0	17.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
12	18.0	15.0	17.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
13	18.0	17.5	18.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
14	18.5	17.5	18.0	---	---	---	0.5	0.5	0.5	0.0	0.0	0.0
15	18.5	18.0	18.0	---	---	---	0.5	0.5	0.5	0.5	0.0	0.0
16	18.0	16.5	17.5	---	---	---	0.5	0.5	0.5	0.0	0.0	0.0
17	16.5	13.5	15.5	---	---	---	0.5	0.5	0.5	0.0	0.0	0.0
18	14.0	12.5	13.5	---	---	---	0.5	0.5	0.5	0.0	0.0	0.0
19	14.0	12.5	13.5	8.5	8.0	8.0	0.5	0.5	0.5	0.0	0.0	0.0
20	13.5	12.5	13.5	8.0	8.0	8.0	0.5	0.5	0.5	---	---	---
21	13.5	12.5	13.0	8.5	7.5	8.0	0.5	0.0	0.5	---	---	---
22	13.5	13.0	13.5	8.0	7.5	7.5	0.0	0.0	0.0	---	---	---
23	14.0	13.0	13.5	8.0	7.5	8.0	0.0	0.0	0.0	---	---	---
24	14.5	14.0	14.0	7.5	6.5	7.0	0.5	0.0	0.5	---	---	---
25	14.0	13.5	13.5	6.0	5.0	5.5	1.0	0.0	0.5	---	---	---
26	13.5	13.0	13.0	5.5	4.5	5.0	1.0	0.5	0.5	0.5	0.0	0.0
27	13.0	11.5	12.0	5.0	4.5	5.0	1.0	0.5	0.5	0.0	0.0	0.0
28	11.5	11.0	11.5	5.0	4.5	5.0	1.5	0.5	0.5	0.0	0.0	0.0
29	11.5	10.5	11.0	4.5	4.0	4.5	0.5	0.0	0.5	0.0	0.0	0.0
30	11.0	10.5	10.5	4.5	4.0	4.5	1.5	0.0	0.5	0.0	0.0	0.0
31	10.5	10.0	10.0	---	---	---	1.5	0.5	1.0	0.0	0.0	0.0
MONTH	19.5	10.0	15.5	---	---	---	6.0	0.0	1.0	2.5	0.0	0.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	1.0	0.0	0.5	5.0	3.5	4.0	10.0	8.0	9.0
2	0.0	0.0	0.0	2.5	0.0	1.5	5.5	4.0	5.0	10.5	8.5	9.5
3	0.5	0.0	0.0	2.0	1.0	1.5	6.0	5.5	5.5	9.5	8.5	9.0
4	0.5	0.0	0.0	1.0	0.0	0.5	5.5	4.5	5.0	9.5	9.0	9.0
5	0.5	0.0	0.5	0.5	0.0	0.0	5.5	4.0	4.5	9.5	8.5	9.0
6	0.5	0.5	0.5	0.5	0.0	0.0	4.5	3.5	4.0	10.0	8.5	9.0
7	---	---	---	0.5	0.0	0.5	4.0	3.0	3.0	12.0	8.5	10.0
8	---	---	---	1.0	0.5	0.5	3.5	2.5	3.0	11.0	9.5	10.5
9	0.5	0.0	0.0	1.0	0.0	0.5	4.0	2.5	3.0	10.5	10.0	10.0
10	0.0	0.0	0.0	1.5	0.0	1.0	4.5	3.5	4.0	11.5	10.0	11.0
11	0.0	0.0	0.0	1.5	1.0	1.0	5.0	4.5	4.5	11.5	10.0	11.0
12	0.5	0.0	0.0	2.0	1.0	1.5	6.0	5.0	5.5	12.5	11.0	12.0
13	0.5	0.0	0.0	2.0	1.0	1.5	7.0	5.5	6.0	12.5	12.5	12.5
14	0.5	0.0	0.0	2.0	1.0	2.0	7.0	6.0	6.5	14.5	12.0	13.0
15	1.5	0.0	0.5	2.5	1.5	2.0	6.0	5.5	6.0	15.0	12.0	13.5
16	1.0	0.0	0.5	4.0	2.5	3.0	5.5	4.0	5.0	13.5	12.0	12.5
17	0.5	0.0	0.0	3.5	2.0	2.5	5.0	4.0	4.5	13.5	12.0	12.5
18	---	---	---	2.5	1.5	2.0	5.0	4.5	4.5	15.0	12.5	13.5
19	---	---	---	1.5	1.5	1.5	6.5	5.0	5.5	16.0	13.5	14.5
20	---	---	---	---	---	---	7.5	6.0	7.0	17.0	15.0	16.0
21	---	---	---	---	---	---	8.5	7.5	8.0	17.0	16.0	16.5
22	---	---	---	---	---	---	8.5	8.0	8.0	16.5	15.5	16.0
23	---	---	---	---	---	---	8.0	7.5	7.5	16.5	15.0	16.0
24	---	---	---	---	---	---	8.0	7.0	7.5	16.0	15.0	15.5
25	---	---	---	3.0	2.5	2.5	7.5	7.5	7.5	16.0	15.5	16.0
26	0.0	0.0	0.0	3.0	1.5	2.5	8.0	7.0	7.5	17.0	16.0	16.5
27	0.0	0.0	0.0	3.0	2.0	2.5	8.0	7.0	7.5	16.5	16.0	16.5
28	0.0	0.0	0.0	3.5	2.0	3.0	8.0	7.0	7.5	16.5	15.5	16.0
29	---	---	---	4.5	3.0	3.5	8.5	8.0	8.0	18.0	15.5	16.5
30	---	---	---	4.5	3.0	4.0	9.5	8.0	8.5	16.5	15.5	16.0
31	---	---	---	4.5	3.5	4.0	---	---	---	16.0	15.5	15.5
MONTH	---	---	---	4.5	0.0	1.5	9.5	2.5	6.0	18.0	8.0	13.0

01100750 MERRIMACK RIVER AT WEST NEWBURY, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.5	16.0	27.5	26.0	26.5	27.0	26.0	26.5	---	---	---
2	18.0	16.0	16.5	---	---	---	27.0	26.5	26.5	---	---	---
3	17.5	16.5	17.0	---	---	---	27.0	26.0	26.5	23.5	22.5	23.0
4	19.0	17.5	18.0	---	---	---	27.0	26.0	26.5	24.5	22.5	23.5
5	19.0	18.0	18.5	---	---	---	26.0	25.0	25.5	25.5	23.5	24.5
6	19.5	18.5	19.0	---	---	---	26.5	25.5	25.5	24.5	23.0	24.0
7	21.0	19.0	20.0	---	---	---	26.5	25.5	26.0	24.0	22.5	23.0
8	22.0	20.5	21.5	---	---	---	26.5	25.0	25.5	24.0	22.5	23.5
9	22.5	21.0	21.5	---	---	---	27.0	25.5	26.0	25.0	23.5	24.0
10	22.5	21.0	21.5	---	---	---	27.5	26.5	27.0	25.0	24.0	24.5
11	22.5	21.0	21.5	---	---	---	27.5	26.5	27.0	24.5	24.0	24.0
12	23.5	21.0	22.0	---	---	---	27.0	26.0	26.5	24.5	24.0	24.0
13	23.0	21.5	22.5	---	---	---	26.5	25.5	26.0	24.0	23.0	23.5
14	22.0	21.0	21.5	---	---	---	27.0	25.5	26.0	22.5	22.0	22.5
15	23.0	21.0	22.0	---	---	---	26.5	25.5	26.0	23.0	20.0	22.0
16	23.0	21.5	22.0	26.0	25.5	25.5	26.0	25.0	25.5	24.0	22.5	23.0
17	24.0	21.5	22.5	25.5	25.0	25.0	26.0	24.5	25.0	24.0	22.5	23.0
18	24.5	22.5	23.5	---	---	---	27.0	25.5	26.0	23.0	22.5	22.5
19	---	---	---	---	---	---	27.0	25.5	26.5	23.0	22.0	22.5
20	---	---	---	24.5	24.0	24.0	27.0	25.5	26.0	22.5	21.5	22.0
21	---	---	---	25.0	23.5	24.0	---	---	---	---	---	---
22	26.0	25.5	25.5	25.5	24.5	25.0	---	---	---	---	---	---
23	25.5	24.5	25.0	26.0	24.5	25.0	---	---	---	21.5	20.5	21.0
24	25.5	23.5	24.5	26.0	25.0	25.5	---	---	---	20.5	19.5	20.5
25	26.5	24.5	25.5	26.5	25.5	26.0	---	---	---	20.0	19.0	19.5
26	27.0	25.5	26.0	27.0	25.5	26.0	---	---	---	19.5	18.5	19.0
27	26.5	25.0	26.0	27.0	26.0	26.5	---	---	---	19.0	18.0	18.5
28	26.5	25.0	25.5	26.5	25.5	26.0	---	---	---	19.0	18.0	18.5
29	25.5	24.0	25.0	26.5	25.5	26.0	---	---	---	19.5	18.5	19.0
30	26.0	23.5	25.0	26.0	25.5	26.0	---	---	---	20.0	19.0	19.0
31	---	---	---	26.5	25.5	26.0	---	---	---	---	---	---
MONTH	27.0	15.5	22.0	---	---	---	---	---	---	25.5	18.0	22.0
YEAR	27.5	0.0	11.5									

01105730 INDIAN HEAD RIVER AT HANOVER, MASS.

LOCATION.--Lat 42°06'02", long 70°49'23", Plymouth County, two-parameter monitor at gaging station on right bank at downstream side of Elm Street Bridge, 0.3 mile upstream from Iron Mine Brook, and 1 mile southwest of Hanover.

DRAINAGE AREA.--30.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1969 to September 1971 (discontinued).
Water temperatures: November 1969 to September 1971 (discontinued).

EXTREMES.--1970-71:
Specific conductance: Maximum, 528 micromhos Feb. 6; minimum, 175 micromhos May 19.
Water temperatures: Maximum, 31.0° C July 8; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 528 micromhos Feb. 6, 1971; minimum, 111 micromhos Dec. 28, 1969.
Water temperatures: Maximum, 32.0° C July 29, 31, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	289	283	286	279	273	276	251	246	248	253	249	251
2	289	283	286	280	274	277	249	241	245	263	249	255
3	291	283	286	---	---	---	251	243	246	269	255	262
4	289	284	287	---	---	---	247	239	243	256	251	254
5	291	285	288	---	---	---	244	240	242	291	249	267
6	290	284	287	---	---	---	249	239	243	290	277	283
7	291	285	289	---	---	---	---	---	---	287	271	277
8	293	289	291	---	---	---	---	---	---	268	207	253
9	293	287	290	---	---	---	255	249	251	267	216	253
10	294	289	291	---	---	---	259	254	256	275	258	267
11	293	287	291	---	---	---	263	259	261	279	274	276
12	294	287	291	---	---	---	271	261	265	281	267	276
13	295	287	291	---	---	---	276	270	274	266	248	260
14	293	287	290	---	---	---	---	---	---	268	264	267
15	295	287	291	---	---	---	---	---	---	268	266	267
16	291	275	284	---	---	---	285	279	283	---	---	---
17	287	280	283	---	---	---	324	273	289	---	---	---
18	299	286	291	---	---	---	302	264	290	---	---	---
19	299	293	295	---	---	---	267	254	258	---	---	---
20	297	292	295	241	236	238	257	251	254	---	---	---
21	297	292	294	240	236	238	248	245	246	---	---	---
22	297	291	294	246	238	243	---	---	---	287	275	284
23	293	265	285	264	241	248	---	---	---	288	283	285
24	284	259	273	251	241	244	254	249	252	299	295	297
25	283	278	281	245	241	243	---	---	---	302	290	296
26	283	274	278	243	240	241	---	---	---	299	292	296
27	276	273	275	245	241	242	---	---	---	---	---	---
28	275	269	272	247	242	245	---	---	---	---	---	---
29	274	267	270	252	245	248	---	---	---	---	---	---
30	275	267	270	254	247	250	---	---	---	378	318	334
31	279	269	274	---	---	---	---	---	---	---	---	---
MONTH	299	259	285	---	---	---	---	---	---	---	---	---

01105730 INDIAN HEAD RIVER AT HANOVER, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	252	220	237	238	231	233	222	218	220
2	---	---	---	238	176	220	235	227	232	228	218	223
3	---	---	---	225	220	222	233	226	230	220	209	216
4	---	---	---	242	190	226	235	229	232	213	206	209
5	407	366	377	---	---	---	236	233	235	211	205	208
6	528	409	467	---	---	---	237	229	233	213	207	210
7	458	410	432	---	---	---	233	194	209	217	209	213
8	510	462	487	---	---	---	196	181	187	221	214	217
9	470	293	365	---	---	---	191	180	185	213	208	211
10	287	251	261	---	---	---	198	191	195	218	208	214
11	260	245	255	---	---	---	203	199	201	210	200	203
12	279	257	269	---	---	---	208	202	205	212	204	207
13	280	227	265	---	---	---	212	207	210	218	206	212
14	223	177	194	---	---	---	215	210	212	223	209	215
15	196	183	189	---	---	---	219	211	214	220	215	218
16	226	208	215	---	---	---	221	217	219	221	194	213
17	239	222	231	---	---	---	226	217	222	196	188	193
18	242	230	236	---	---	---	227	222	225	184	177	179
19	253	240	244	---	---	---	227	223	225	189	175	179
20	255	245	252	---	---	---	229	225	227	201	184	191
21	255	248	252	---	---	---	230	224	227	212	195	199
22	249	244	247	---	---	---	226	224	225	213	198	203
23	246	236	240	---	---	---	230	222	225	209	200	206
24	236	231	234	---	---	---	229	219	224	214	205	210
25	237	221	231	---	---	---	238	221	225	222	212	215
26	249	233	240	228	225	227	229	226	227	223	214	218
27	256	249	251	233	225	229	229	224	227	225	216	221
28	255	233	251	233	230	231	230	226	228	219	212	216
29	---	---	---	236	230	233	229	216	224	221	215	217
30	---	---	---	236	229	232	220	216	218	221	212	217
31	---	---	---	234	230	232	---	---	---	219	210	215
MONTH	528	177	279	---	---	---	238	180	219	228	175	209

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	227	213	218	270	256	265	287	264	277	295	280	287
2	230	214	221	269	255	261	289	277	282	290	280	284
3	225	212	218	274	255	264	295	278	287	294	284	290
4	226	208	217	285	263	270	294	277	286	303	285	292
5	226	213	220	283	267	272	286	273	281	303	291	296
6	219	213	217	291	273	280	285	274	279	302	291	295
7	237	214	220	287	272	280	289	276	281	297	287	291
8	241	217	224	286	271	278	285	271	276	306	291	296
9	227	209	217	291	273	281	281	273	277	306	293	301
10	222	196	210	291	273	282	285	272	277	311	297	302
11	213	190	205	288	273	281	280	272	276	304	294	300
12	227	196	207	286	269	277	282	271	276	306	291	296
13	293	229	240	285	267	273	294	272	279	305	296	299
14	239	228	233	295	278	288	282	275	279	302	286	296
15	239	227	233	302	282	293	284	277	280	298	283	290
16	241	226	230	295	275	286	288	277	281	295	283	289
17	248	224	234	292	273	282	293	281	288	297	287	293
18	257	230	239	291	279	285	292	277	283	302	290	297
19	255	229	240	289	257	273	295	277	286	302	291	296
20	265	231	244	265	251	258	297	277	285	301	291	295
21	248	229	240	262	246	252	293	279	286	297	287	292
22	255	238	247	269	252	259	291	277	285	297	289	291
23	261	247	253	283	259	266	294	277	286	296	290	292
24	256	243	250	283	265	271	283	275	279	299	291	295
25	262	250	257	281	263	272	284	277	280	300	291	295
26	269	255	261	279	267	273	279	276	277	297	292	294
27	271	257	263	283	260	273	279	261	275	---	---	---
28	277	260	267	277	265	271	278	271	275	---	---	---
29	272	255	262	277	261	268	286	275	281	---	---	---
30	273	253	263	271	257	265	293	279	285	---	---	---
31	---	---	---	271	249	261	295	285	289	---	---	---
MONTH	293	190	235	302	246	273	297	261	281	311	280	294
YEAR	528	175	258									

NORTH RIVER BASIN

01105730 INDIAN HEAD RIVER AT HANOVER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TC SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	16.0	16.5	10.5	8.0	9.0	5.5	5.0	5.5	---	---	---
2	15.5	15.0	15.5	10.0	9.0	9.5	8.0	4.5	5.5	---	---	---
3	18.5	15.0	16.5	---	---	---	6.5	5.0	6.0	---	---	---
4	18.0	16.5	17.0	---	---	---	6.5	5.5	6.0	---	---	---
5	17.0	15.0	16.0	---	---	---	---	---	---	---	---	---
6	16.5	14.0	15.0	---	---	---	---	---	---	---	---	---
7	18.0	14.5	16.0	---	---	---	---	---	---	---	---	---
8	19.0	16.0	17.0	---	---	---	---	---	---	---	---	---
9	19.5	17.0	17.5	---	---	---	---	---	---	---	---	---
10	18.0	17.0	17.5	---	---	---	---	---	---	---	---	---
11	18.0	17.0	17.5	---	---	---	---	---	---	1.5	0.5	1.0
12	21.5	17.5	19.0	---	---	---	---	---	---	1.5	0.5	1.0
13	21.5	18.5	20.0	---	---	---	---	---	---	---	---	---
14	21.5	19.5	20.5	---	---	---	---	---	---	0.5	0	0
15	22.5	20.0	21.5	---	---	---	---	---	---	1.0	0	0.5
16	22.0	16.5	19.5	---	---	---	---	---	---	0	0	0
17	16.5	12.5	14.5	---	---	---	---	---	---	0	0	0
18	13.0	11.0	12.0	---	---	---	---	---	---	0.5	0	0
19	13.0	11.0	12.0	---	---	---	---	---	---	0.5	0	0
20	12.0	10.0	11.0	8.0	7.5	7.5	---	---	---	0.5	0	0
21	11.5	10.0	10.5	8.5	7.0	8.0	---	---	---	0.5	0	0
22	13.0	11.0	11.5	8.0	6.5	7.0	---	---	---	1.0	0.5	1.0
23	15.0	12.5	13.5	8.0	7.5	8.0	---	---	---	1.0	0	0.5
24	16.0	14.5	15.0	---	---	---	---	---	---	1.0	0	0.5
25	15.5	14.5	14.5	9.0	3.0	5.0	---	---	---	1.0	0.5	0.5
26	14.5	13.0	14.0	2.5	2.5	2.5	---	---	---	1.0	0.5	0.5
27	13.0	11.5	12.0	3.5	2.5	3.0	---	---	---	0.5	0	0
28	11.5	10.0	10.5	4.5	3.5	4.0	---	---	---	0.5	0	0
29	10.5	8.5	9.5	5.0	4.5	5.0	---	---	---	1.0	0	0
30	9.5	8.0	9.0	6.5	5.0	5.5	---	---	---	1.0	0	0.5
31	9.5	8.0	8.5	---	---	---	---	---	---	0.5	0	0
MONTH	22.5	8.0	15.0	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0	0	0	3.5	1.5	2.0	8.0	6.5	7.5	11.0	8.0	9.0
2	0	0	0	3.5	1.5	2.0	10.5	7.5	9.0	11.0	9.5	10.5
3	0	0	0	---	---	---	11.0	10.0	10.5	11.5	10.0	10.5
4	1.0	0	0	2.0	1.0	1.5	11.5	9.0	10.0	10.0	9.5	10.0
5	0.5	0	0	---	---	---	11.0	9.5	10.0	13.0	8.5	11.0
6	0.5	0	0	---	---	---	10.0	7.5	9.0	12.5	11.0	11.5
7	0.5	0	0	---	---	---	7.5	4.0	5.5	14.5	10.5	12.5
8	0.5	0	0.5	---	---	---	6.0	3.0	4.5	14.0	12.5	13.0
9	0.5	0	0	---	---	---	8.0	3.5	6.0	12.5	10.0	11.0
10	---	---	---	---	---	---	10.0	6.5	8.5	10.0	9.0	9.5
11	0	0	0	---	---	---	9.5	7.5	8.5	14.0	9.0	11.0
12	0.5	0	0	---	---	---	10.0	7.0	8.5	15.5	13.0	14.0
13	0.5	0	0.5	---	---	---	11.0	8.5	10.0	15.0	14.0	14.5
14	0	0	0	---	---	---	11.0	9.0	10.0	16.0	13.5	14.5
15	0	0	0	---	---	---	9.5	7.5	8.5	17.0	13.5	15.0
16	0.5	0	0	---	---	---	8.5	7.0	8.0	15.0	11.5	13.5
17	1.0	0	0	---	---	---	9.0	6.0	7.5	13.5	11.0	12.0
18	1.5	0.5	0.5	---	---	---	8.0	7.0	7.5	15.5	12.0	13.5
19	3.0	0.5	1.0	---	---	---	9.5	7.0	8.0	17.0	14.0	15.5
20	1.5	1.0	1.0	---	---	---	10.0	8.0	9.0	19.0	15.0	17.0
21	1.0	0.5	1.0	---	---	---	11.5	9.5	10.5	18.0	16.0	17.0
22	1.0	0.5	1.0	---	---	---	11.0	10.0	10.5	17.0	14.5	15.5
23	1.5	1.0	1.0	---	---	---	10.0	9.0	10.0	17.0	14.5	15.5
24	1.5	0.5	0.5	---	---	---	11.0	8.5	10.0	16.5	14.5	15.5
25	1.5	0	0	---	---	---	11.5	9.5	10.5	18.0	15.5	16.5
26	2.0	0.5	1.0	---	---	---	10.0	8.5	9.5	18.5	17.0	17.5
27	2.5	1.0	1.5	5.0	4.0	4.5	10.5	9.0	9.5	18.0	16.0	17.0
28	3.5	1.5	2.0	5.5	3.0	4.0	10.0	8.5	9.5	17.0	15.0	16.0
29	---	---	---	6.5	4.5	5.5	9.5	7.5	8.5	18.0	14.0	16.0
30	---	---	---	7.0	5.0	6.0	9.0	7.0	8.0	17.5	14.0	15.5
31	---	---	---	8.0	6.0	7.0	---	---	---	14.5	13.5	14.0
MONTH	3.5	0	0.5	---	---	---	11.5	3.0	8.5	19.0	8.0	13.5

01105730 INDIAN HEAD RIVER AT HANOVER, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	13.5	15.0	29.0	24.0	26.5	28.5	23.5	26.0	24.5	19.0	21.5
2	18.0	15.0	16.5	27.5	25.0	26.5	28.5	25.0	27.0	24.0	18.0	20.0
3	17.5	16.0	16.5	27.0	23.5	25.0	30.0	25.5	27.5	23.5	18.0	20.5
4	22.5	16.5	19.0	28.0	22.5	25.0	27.5	25.5	26.5	25.5	19.5	22.0
5	22.0	18.5	20.0	28.5	23.5	25.5	27.5	23.0	25.0	25.5	21.5	23.5
6	23.5	17.5	20.0	29.5	25.0	27.0	27.0	22.5	25.0	23.5	20.5	22.0
7	24.5	19.0	21.5	29.0	26.0	27.5	27.5	23.0	25.0	25.0	20.0	22.0
8	26.0	21.0	23.5	31.0	25.0	28.0	26.5	21.5	24.0	24.0	21.0	22.5
9	24.0	20.5	22.0	30.5	25.5	28.0	28.0	23.0	25.5	24.0	21.0	22.5
10	23.0	20.0	21.5	29.5	25.5	27.5	28.5	25.0	26.5	23.0	20.5	21.5
11	24.0	20.0	21.5	27.5	24.5	25.5	28.0	25.0	26.5	22.5	20.0	21.0
12	23.5	18.5	21.0	26.0	23.0	24.5	26.5	24.0	25.5	22.0	20.0	21.0
13	23.0	21.0	21.5	26.5	22.0	24.0	27.5	22.0	24.5	21.5	20.0	21.0
14	22.5	20.5	21.0	26.5	21.5	24.0	25.0	21.5	23.5	21.0	19.5	20.0
15	21.5	17.5	20.0	28.0	19.5	24.0	23.5	21.5	22.5	21.5	19.5	20.0
16	24.0	19.5	22.0	28.0	23.0	25.5	26.0	20.0	22.5	24.5	19.0	21.5
17	23.5	19.0	21.0	28.5	23.5	26.0	26.5	19.0	23.0	21.0	19.0	20.0
18	26.5	20.5	23.5	28.0	24.0	26.0	27.0	20.5	23.5	20.0	18.5	19.5
19	26.5	21.5	24.0	24.5	23.0	23.5	28.0	22.0	24.5	20.0	17.5	18.5
20	27.5	22.0	24.5	25.0	21.5	23.0	27.5	23.5	25.5	19.0	17.5	18.0
21	27.5	23.0	25.0	24.5	20.5	22.5	28.0	23.5	25.5	19.5	17.5	18.0
22	26.5	24.0	25.0	25.0	22.5	24.0	28.0	24.0	25.5	18.5	16.5	17.0
23	26.0	23.5	24.0	28.0	21.5	25.0	25.0	21.5	23.5	18.0	15.0	16.5
24	28.0	22.5	25.0	27.5	23.5	25.5	23.5	19.0	21.0	18.0	14.5	16.0
25	27.0	23.0	24.5	25.5	24.5	25.0	24.0	18.5	21.0	18.0	13.5	15.5
26	27.0	24.0	25.5	28.5	24.0	26.0	21.5	19.0	20.0	13.5	12.5	13.0
27	28.5	22.5	25.5	28.5	24.5	26.5	20.0	19.0	19.5	---	---	---
28	25.5	22.5	23.5	26.5	24.0	25.0	21.5	18.0	20.0	---	---	---
29	23.5	21.5	22.5	27.0	23.0	25.0	24.5	19.5	21.5	---	---	---
30	27.0	22.0	24.5	27.0	24.0	25.5	24.0	20.0	22.5	---	---	---
31	---	---	---	26.0	23.5	25.0	24.5	21.0	22.0	---	---	---
MONTH	28.5	13.5	22.0	31.0	19.5	25.5	30.0	18.0	24.0	25.5	12.5	20.0
YEAR	31.0	0	14.0									

01105870 JONES RIVER AT KINGSTON, MASS.

LOCATION.--Lat 41°59'27", long 70°44'03", Plymouth County, two-parameter monitor at gaging station on left bank 100 ft downstream from Elm Street Bridge, at Kingston, 2.8 miles upstream from mouth.

DRAINAGE AREA.--15.8 sq mi, excludes 4.09 sq mi above outlet of Silver Lake, from which flow is diverted for municipal supply of Brockton and Whitman.

PERIOD OF RECORD.--Chemical analyses: November 1969 to September 1971 (discontinued).
Water temperatures: November 1969 to September 1971 (discontinued).

EXTREMES.--1970-71:
Water temperatures: Maximum, 24.0° C Aug. 2, 3; minimum, freezing point Feb. 10.

Period of record:
Specific conductance: Maximum, 354 micromhos Feb. 5, 1971; minimum, 56 micromhos Feb. 4, 1970.
Water temperatures: Maximum, 25.0° C June 25, July 31, Aug. 2, 1970; minimum freezing point on many days during winter periods.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	105	99	102	109	104	107	100	95	96	106	103	104
2	106	98	101	106	95	103	97	96	97	107	102	104
3	108	99	104	96	88	90	98	96	97	107	103	105
4	107	97	100	94	88	91	98	96	97	111	103	107
5	100	97	99	91	89	90	97	95	96	121	106	112
6	102	97	99	90	90	90	126	94	99	106	104	105
7	102	98	100	90	89	90	96	93	94	107	104	105
8	104	99	102	89	88	89	102	97	100	93	90	91
9	107	102	104	91	88	89	102	98	100	93	90	91
10	104	102	102	90	89	89	100	96	99	92	90	91
11	107	102	105	89	88	88	101	97	98	92	91	91
12	115	105	108	90	89	89	121	97	102	93	91	92
13	108	105	107	91	84	88	105	96	99	93	91	92
14	114	106	110	85	81	83	100	96	97	101	94	97
15	115	111	113	83	81	82	100	96	97	98	95	96
16	111	100	103	86	82	84	99	96	97	98	96	96
17	105	99	101	83	82	83	158	97	115	99	97	98
18	124	106	112	84	83	83	108	103	105	113	99	102
19	121	110	115	89	84	87	103	98	100	110	100	103
20	111	106	107	91	87	90	99	96	97	103	102	103
21	119	111	116	91	88	90	97	95	96	109	102	105
22	119	110	116	91	90	91	100	95	97	111	103	105
23	110	100	105	92	92	92	98	96	97	109	102	103
24	116	107	110	93	91	91	129	96	113	111	104	107
25	121	117	119	91	90	91	110	104	107	113	105	108
26	126	119	123	92	88	90	107	98	103	140	105	114
27	123	118	119	94	91	92	104	99	101	120	105	112
28	118	107	112	99	93	94	105	100	102	115	107	109
29	112	110	111	94	93	93	103	102	102	113	108	111
30	111	109	110	97	94	95	104	102	103	171	108	132
31	116	111	113	---	---	---	105	103	104	139	117	130
MONTH	126	97	108	109	81	90	158	93	100	171	90	104

01105870 JONES RIVER AT KINGSTON, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	134	110	118	78	74	76	84	80	82	86	84	85
2	114	109	111	74	72	73	82	77	80	86	82	84
3	120	109	113	75	73	74	77	74	76	82	81	82
4	117	112	114	82	73	78	77	74	75	89	82	86
5	354	112	195	79	75	76	86	74	77	87	83	85
6	223	155	199	---	---	---	85	83	84	85	79	81
7	194	134	157	---	---	---	84	80	83	84	75	80
8	139	105	120	78	74	76	84	79	81	81	79	80
9	102	94	98	77	70	73	85	79	82	79	77	79
10	109	96	100	77	71	74	81	79	80	77	75	76
11	102	98	99	75	72	73	80	78	79	78	74	76
12	101	97	99	78	71	74	89	80	82	76	74	75
13	101	80	95	77	71	75	86	82	83	82	75	76
14	80	74	76	76	69	71	86	82	83	78	76	77
15	84	79	82	79	69	74	84	81	83	78	76	77
16	84	81	82	80	76	78	90	82	84	77	74	76
17	89	83	85	77	74	76	87	83	84	75	73	74
18	86	84	85	77	73	75	89	84	86	77	74	75
19	86	84	85	76	73	74	90	86	88	80	75	75
20	86	85	85	73	71	72	89	86	87	80	75	76
21	85	84	85	72	70	71	95	88	90	77	76	76
22	86	84	85	75	70	73	92	88	89	78	76	77
23	84	83	84	77	71	74	96	89	91	78	77	78
24	83	82	82	74	70	72	94	86	89	109	77	80
25	84	82	83	76	71	73	103	95	97	96	79	81
26	85	81	82	76	71	73	97	94	95	85	82	83
27	82	78	80	73	71	72	97	86	92	85	83	84
28	78	76	77	75	71	72	88	85	87	85	83	84
29	---	---	---	84	71	75	90	86	87	87	83	84
30	---	---	---	86	82	83	90	84	85	85	82	84
31	---	---	---	88	80	82	---	---	---	82	80	80
MONTH	354	74	102	88	69	75	103	74	85	109	73	80

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	82	78	80	101	98	99	98	96	97	104	101	103
2	80	76	78	102	97	99	98	97	98	104	101	103
3	81	76	79	98	97	97	99	97	98	105	103	104
4	86	80	82	99	96	97	100	91	95	106	103	105
5	83	81	82	99	97	98	94	91	92	106	105	106
6	86	82	84	102	98	100	99	95	97	109	106	108
7	90	86	88	110	102	107	98	96	97	109	107	107
8	91	88	89	109	105	107	99	97	98	111	107	109
9	89	88	88	110	106	108	99	98	98	109	103	106
10	96	87	89	107	105	106	106	98	101	107	103	105
11	94	88	89	106	102	103	99	97	98	116	104	110
12	89	88	88	104	102	103	99	96	97	110	107	108
13	90	88	89	109	104	107	99	95	97	110	106	108
14	92	89	91	107	103	106	97	95	96	109	105	107
15	91	88	89	112	103	108	96	96	96	110	106	107
16	94	88	89	125	104	114	98	96	97	109	106	107
17	94	90	92	123	102	109	100	97	99	118	106	114
18	98	92	94	107	99	102	103	99	100	120	106	112
19	94	92	92	99	90	96	108	99	104	111	106	108
20	94	92	93	96	91	93	130	80	95	109	105	107
21	97	94	95	104	92	99	96	81	88	114	104	108
22	102	96	99	103	100	102	102	96	99	107	103	105
23	104	97	100	99	98	98	104	102	103	106	103	105
24	101	97	99	98	97	98	103	100	101	107	102	105
25	99	96	97	98	97	98	103	99	101	103	100	101
26	98	96	97	99	97	98	100	96	97	102	100	101
27	97	95	96	99	98	99	98	94	96	101	98	99
28	97	95	96	98	97	98	99	95	97	103	97	100
29	108	95	100	99	97	98	100	97	98	108	100	104
30	101	99	100	100	94	98	101	98	99	107	104	105
31	---	---	---	98	96	97	102	101	102	---	---	---
MONTH	108	76	91	125	90	101	130	80	98	120	97	106
YEAR	354	69	95									

01105870 JONES RIVER AT KINGSTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	14.0	14.0	8.0	7.0	7.5	7.5	6.5	7.0	0.5	0.5	0.5
2	13.5	12.5	13.0	9.5	7.5	8.5	7.5	6.5	7.0	1.0	0.5	1.0
3	15.0	13.5	14.0	11.0	9.5	10.0	7.5	6.5	7.0	1.0	0.5	0.5
4	15.5	14.5	15.0	10.0	9.5	10.0	8.0	6.0	7.5	0.5	0.5	0.5
5	14.5	13.0	14.0	10.5	9.0	10.0	6.0	3.5	4.5	1.0	0.5	0.5
6	13.0	12.0	12.5	9.0	7.5	8.5	3.5	1.5	3.0	1.0	0.5	0.5
7	14.0	12.5	13.5	9.0	7.0	8.0	1.5	0.5	1.0	1.0	0.5	0.5
8	15.0	14.0	14.5	8.5	7.5	8.0	1.5	0.5	1.0	1.5	1.0	1.0
9	15.5	14.5	15.0	7.5	6.5	7.0	1.5	1.0	1.0	1.0	1.0	1.0
10	15.5	15.0	15.5	8.5	7.0	7.5	2.5	1.5	2.0	1.0	1.0	1.0
11	15.5	15.0	15.0	10.5	8.5	10.0	2.0	1.5	2.0	2.0	1.0	1.5
12	15.5	15.0	15.5	11.0	10.5	11.0	1.5	1.0	1.5	1.5	1.0	1.5
13	16.0	15.5	16.0	11.0	10.0	10.5	1.5	1.0	1.5	1.5	1.0	1.0
14	17.0	16.0	16.5	10.0	9.5	9.5	2.0	1.5	1.5	1.0	1.0	1.0
15	18.0	17.0	17.5	9.5	9.0	9.0	2.0	1.0	1.5	1.0	0.5	1.0
16	17.5	14.5	16.5	9.0	8.0	9.0	1.0	0.5	1.0	1.0	0.5	1.0
17	14.5	10.0	12.0	7.5	6.0	7.0	1.5	0.5	1.0	1.0	1.0	1.0
18	10.5	8.5	9.5	6.0	5.0	5.5	1.0	0.5	0.5	1.0	0.5	1.0
19	11.0	9.0	10.0	7.0	5.5	6.0	1.0	0.5	0.5	1.0	0.5	1.0
20	10.0	8.0	9.0	9.5	7.0	8.0	2.5	1.0	1.5	1.0	0.5	1.0
21	10.0	8.0	9.0	9.5	8.0	9.0	1.0	0.5	1.0	1.0	0.5	1.0
22	11.5	9.5	10.5	8.0	7.0	7.5	0.5	0.5	0.5	1.5	1.0	1.0
23	14.0	11.5	12.5	8.5	7.5	8.0	0.5	0.5	0.5	1.5	1.0	1.0
24	15.0	14.0	14.5	8.0	5.0	6.5	1.0	0.5	0.5	1.5	1.0	1.0
25	15.0	13.5	14.5	5.0	2.5	3.5	1.0	0.5	0.5	1.5	1.0	1.0
26	13.5	12.0	13.0	3.0	1.5	2.5	0.5	0.5	0.5	1.5	1.0	1.0
27	12.0	10.0	11.0	4.0	2.0	3.0	1.0	0.5	0.5	1.0	0.5	0.5
28	10.5	9.0	9.5	6.0	4.0	5.0	0.5	0.5	0.5	1.5	0.5	1.0
29	9.0	7.5	8.0	6.5	6.0	6.0	1.0	0.5	0.5	1.5	0.5	1.0
30	8.0	6.5	7.5	7.5	6.5	7.0	1.0	0.5	0.5	2.0	0.5	1.0
31	8.0	6.5	7.0	---	---	---	1.0	0.5	0.5	1.5	1.0	1.5
MONTH	18.0	6.5	13.0	11.0	1.5	7.5	8.0	0.5	2.0	2.0	0.5	1.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.5	1.0	5.5	3.0	4.0	8.5	5.5	7.0	12.0	7.5	10.0
2	1.0	0.5	0.5	4.5	2.5	4.0	11.0	7.0	9.0	12.5	9.5	11.0
3	1.0	0.5	1.0	4.0	2.5	3.5	10.5	9.5	10.0	11.5	10.5	11.0
4	1.5	0.5	1.0	3.0	1.5	2.5	11.0	7.5	9.5	10.5	9.5	10.0
5	1.5	0.5	1.0	1.5	1.0	1.0	10.0	8.0	9.0	14.5	8.5	11.0
6	1.5	0.5	1.0	---	---	---	8.5	7.0	8.0	13.5	12.0	12.5
7	1.0	0.5	1.0	---	---	---	6.5	4.5	5.5	15.0	10.5	13.0
8	1.0	0.5	1.0	3.5	2.0	3.0	8.0	3.5	5.5	14.0	12.0	13.0
9	0.5	0.5	0.5	3.5	0.5	2.0	9.0	4.5	6.5	12.0	9.5	10.5
10	0.5	0	0.5	4.0	1.0	2.5	12.0	7.5	9.5	10.0	8.5	9.0
11	1.0	0.5	0.5	3.0	1.5	2.0	10.0	6.5	8.0	15.5	8.0	11.5
12	1.5	0.5	1.0	5.0	1.0	2.5	10.5	6.0	8.0	17.0	13.5	15.5
13	1.5	0.5	1.0	5.5	3.0	4.0	12.5	8.5	10.5	16.0	14.0	15.0
14	1.0	0.5	0.5	5.0	4.0	4.5	11.5	8.5	10.5	17.5	13.5	15.5
15	1.0	0.5	0.5	7.5	4.0	5.0	9.5	6.5	8.0	17.0	13.5	15.0
16	1.0	0.5	0.5	10.5	7.0	8.5	8.0	6.5	7.0	15.0	11.5	13.0
17	1.5	0.5	0.5	8.5	6.0	7.0	9.5	5.5	7.5	14.0	11.0	12.0
18	1.5	0.5	1.0	7.0	4.0	5.5	8.0	7.0	7.0	17.0	12.0	14.5
19	2.5	0.5	1.5	5.0	3.5	4.5	9.5	6.5	8.0	17.5	14.0	15.5
20	1.5	1.0	1.5	5.5	4.0	5.0	10.0	7.5	8.5	18.5	15.0	17.0
21	1.5	1.0	1.0	5.0	3.5	4.5	12.0	8.5	10.5	17.5	16.0	16.5
22	2.0	1.0	1.5	7.0	3.0	5.0	11.0	9.5	10.5	16.0	15.0	15.0
23	2.0	1.5	1.5	7.0	4.5	5.5	10.0	8.0	9.0	17.5	13.5	15.5
24	1.5	0.5	1.0	6.0	3.5	5.0	12.5	7.5	10.0	17.5	13.5	15.5
25	1.5	0.5	1.0	6.0	2.5	4.5	11.0	8.5	9.5	18.5	15.0	17.0
26	3.5	0.5	2.0	5.5	3.0	4.5	9.0	7.5	8.5	19.5	16.5	18.0
27	3.5	2.5	3.0	4.5	3.0	4.0	11.0	8.0	9.5	18.0	16.5	17.0
28	5.0	3.0	4.0	5.5	2.0	4.0	9.5	8.0	9.0	16.5	14.5	16.0
29	---	---	---	6.0	4.0	5.5	8.5	7.0	7.5	17.5	14.0	16.0
30	---	---	---	7.0	5.0	6.0	9.0	6.0	7.5	16.0	14.0	15.0
31	---	---	---	8.0	5.0	6.5	---	---	---	15.0	13.5	14.0
MONTH	5.0	0	1.0	10.5	0.5	4.5	12.5	3.5	8.5	19.5	7.5	14.0

01105870 JONES RIVER AT KINGSTON, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	14.0	16.0	22.5	20.5	21.5	23.5	22.0	23.0	19.5	17.5	18.5
2	18.5	14.5	16.5	22.5	21.5	22.0	24.0	22.5	23.0	17.5	16.5	17.0
3	17.5	15.5	16.5	22.0	20.0	20.5	24.0	23.0	23.5	18.0	16.5	17.0
4	20.0	16.0	18.0	20.5	18.5	19.5	23.5	20.5	22.0	19.5	17.5	18.5
5	20.5	17.5	18.5	20.5	18.5	19.5	22.0	19.0	20.5	21.0	19.0	20.0
6	19.0	16.0	17.5	22.0	20.5	21.0	21.0	18.5	20.0	21.0	19.5	20.5
7	21.0	16.5	18.5	23.0	21.5	22.0	20.5	19.0	20.0	19.5	18.5	19.0
8	22.0	19.0	20.5	22.5	21.0	22.0	20.5	18.5	19.5	20.0	18.5	19.5
9	21.5	19.0	20.5	23.0	21.5	22.0	22.0	19.5	20.5	21.0	20.0	20.5
10	20.5	17.5	19.0	23.0	22.0	22.5	22.5	21.0	21.5	21.5	20.0	21.0
11	19.5	16.5	18.0	22.0	20.5	21.5	23.5	21.5	22.5	20.5	19.0	19.5
12	19.5	16.0	18.0	21.0	19.5	20.5	23.0	21.5	22.0	19.0	18.5	19.0
13	19.5	17.5	18.5	21.0	19.0	20.0	21.0	19.5	20.5	19.5	19.0	19.0
14	18.5	17.0	18.0	21.0	19.5	20.0	20.0	18.5	19.5	19.5	19.0	19.0
15	18.0	16.0	17.0	20.5	19.0	20.0	20.0	19.0	19.0	19.0	18.5	19.0
16	18.5	16.0	17.0	21.0	19.0	20.0	19.5	17.5	18.5	19.5	18.0	19.0
17	19.0	16.5	18.0	22.0	20.0	20.5	19.5	17.5	18.5	19.5	19.0	19.5
18	20.0	17.5	19.0	22.0	20.0	21.0	20.5	18.5	19.5	19.0	18.5	19.0
19	20.5	18.0	19.5	21.0	19.5	20.0	21.5	19.0	20.5	18.5	18.0	18.0
20	21.0	19.0	20.0	20.5	18.5	19.5	22.0	20.5	21.0	18.0	17.5	17.5
21	21.5	19.5	20.5	21.5	18.5	20.0	22.5	20.0	21.5	18.0	17.5	18.0
22	22.5	21.0	22.0	21.0	19.5	20.5	23.0	20.5	22.0	17.5	17.0	17.5
23	22.0	20.0	21.0	20.5	18.5	20.0	22.0	20.0	21.0	17.0	15.5	16.0
24	21.0	19.0	20.0	21.5	19.5	20.5	20.0	17.5	18.5	17.0	15.5	16.0
25	21.5	19.5	20.5	21.5	20.5	21.0	18.5	16.5	17.5	15.5	13.5	14.5
26	22.0	20.5	21.5	21.0	20.0	21.0	19.0	17.0	18.0	14.0	13.0	13.5
27	21.0	19.5	20.5	21.5	20.5	21.0	18.5	17.5	17.5	13.0	12.0	12.5
28	21.0	19.5	20.5	22.0	20.0	21.0	20.0	17.0	18.5	14.0	12.5	13.5
29	20.0	18.0	18.5	21.5	20.5	21.0	21.0	18.5	20.0	16.0	14.0	15.0
30	20.5	18.0	19.0	22.0	21.0	21.5	20.5	19.0	20.0	17.0	16.0	16.5
31	---	---	---	23.0	21.0	22.0	20.5	19.5	20.0	---	---	---
MONTH	22.5	14.0	19.0	23.0	18.5	21.0	24.0	16.5	20.5	21.5	12.0	17.5
YEAR	24.0	0	11.0									

01105876 EEL RIVER NEAR PLYMOUTH, MASS.

LOCATION.--Lat 41°56'30", long 70°37'23", Plymouth County, two-parameter monitor at gaging station on right bank 10 ft upstream from bridge on State Highway 3A, 0.6 mile upstream from mouth, and 2.9 miles southeast of Plymouth.

DRAINAGE AREA.--14.7 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1970 to May 1971 (discontinued).
Water temperatures: August 1970 to May 1971 (discontinued).

EXTREMES.--Period of record:
Specific conductance: Maximum, 741 micromhos Apr. 28; minimum, 35 micromhos Dec. 24.
Water temperatures: Maximum, 29.0° C Aug. 15; minimum, freezing point on several days during winter period.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), NOVEMBER 1970 TO MAY 1971

	NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	57	52	55	595	63	135
2	---	---	---	58	53	56	169	116	150
3	---	---	---	165	53	77	155	116	130
4	---	---	---	76	65	69	157	112	126
5	---	---	---	75	70	72	166	113	146
6	---	---	---	71	64	67	198	130	172
7	---	---	---	71	64	68	184	122	149
8	---	---	---	66	58	62	185	133	162
9	81	79	80	62	56	58	176	128	144
10	82	77	79	60	56	57	134	111	123
11	80	75	77	60	57	58	136	122	132
12	83	77	80	56	50	54	205	131	151
13	596	77	127	57	48	51	328	178	256
14	110	81	90	58	54	56	170	130	138
15	84	70	75	58	52	56	134	115	123
16	74	69	72	57	51	54	278	120	217
17	82	69	75	61	44	53	209	118	139
18	76	69	72	61	57	60	119	106	111
19	75	65	69	63	48	55	114	105	109
20	72	61	65	50	46	49	116	109	112
21	64	61	63	52	48	50	109	104	107
22	72	62	66	53	46	51	124	110	118
23	70	63	65	50	43	48	145	112	124
24	65	63	64	61	35	48	148	125	136
25	67	63	65	60	55	57	149	135	140
26	67	63	65	439	55	110	583	140	240
27	69	62	65	68	51	60	348	243	299
28	66	63	64	67	56	62	367	265	289
29	63	56	60	63	56	59	192	136	155
30	56	54	55	66	60	62	352	127	225
31	---	---	---	70	60	65	303	167	213
MONTH	---	---	---	439	35	60	595	63	161

01105876 EEL RIVER NEAR PLYMOUTH, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C) NOVEMBER 1970 TO MAY 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	164	130	142	140	93	110	647	611	629	527	253	338
2	134	121	127	133	100	112	635	473	559	574	393	430
3	127	120	124	138	122	132	637	398	523	575	392	481
4	134	119	127	489	121	246	650	400	509	501	384	434
5	233	137	153	156	120	161	653	291	475	---	---	---
6	293	213	257	---	---	---	510	235	360	---	---	---
7	303	174	230	---	---	---	551	349	494	---	---	---
8	209	136	164	135	105	120	526	253	369	---	---	---
9	338	205	303	125	111	117	592	218	416	---	---	---
10	284	163	227	135	103	110	669	491	576	---	---	---
11	215	117	154	103	90	98	660	392	516	---	---	---
12	207	156	172	115	94	99	413	237	286	---	---	---
13	220	154	178	111	94	97	238	167	199	---	---	---
14	284	227	249	96	87	91	246	180	202	---	---	---
15	241	107	154	89	80	85	200	184	192	---	---	---
16	162	95	124	95	76	84	206	174	191	---	---	---
17	133	97	115	92	86	89	200	175	185	---	---	---
18	121	103	111	103	85	89	286	168	242	---	---	---
19	121	101	113	103	74	92	181	172	176	---	---	---
20	118	86	97	80	74	77	194	184	189	---	---	---
21	121	95	113	96	82	89	288	187	226	---	---	---
22	109	90	96	105	86	91	336	302	321	---	---	---
23	113	81	90	97	94	96	334	315	323	---	---	---
24	112	82	97	98	83	91	595	208	306	---	---	---
25	593	92	188	94	89	91	636	416	501	---	---	---
26	611	128	216	96	92	94	592	372	443	---	---	---
27	423	118	208	452	93	184	---	---	---	---	---	---
28	227	126	162	---	---	---	761	433	643	---	---	---
29	---	---	---	640	470	535	721	403	571	---	---	---
30	---	---	---	636	491	560	498	286	360	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	611	81	160	640	74	144	741	167	377	---	---	---
PERIOD	741	35	171									

TEMPERATURE (°C) OF WATER, AUGUST 1970 TO MAY 1971

	AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	22.5	21.0	22.0
2	---	---	---	21.5	19.5	20.0
3	---	---	---	20.5	18.5	19.5
4	---	---	---	21.0	19.5	20.0
5	---	---	---	23.5	20.5	21.5
6	---	---	---	23.0	20.5	21.5
7	---	---	---	21.5	19.5	20.0
8	---	---	---	19.5	18.0	18.5
9	---	---	---	18.0	17.0	17.5
10	---	---	---	19.5	17.0	18.5
11	---	---	---	21.0	19.0	20.0
12	---	---	---	22.0	18.5	20.0
13	27.0	24.0	25.5	21.5	18.5	20.0
14	27.5	23.0	25.5	21.0	18.0	19.0
15	29.0	24.5	26.5	18.0	16.5	17.5
16	28.5	24.5	26.5	18.5	16.5	17.0
17	27.0	25.0	26.5	19.0	16.5	17.5
18	26.5	24.0	25.0	18.0	17.5	17.5
19	27.0	23.5	25.0	20.0	17.5	18.5
20	24.5	23.0	23.5	20.0	17.5	18.5
21	24.5	23.0	23.5	21.0	18.0	19.5
22	25.0	22.0	23.5	24.0	19.5	21.5
23	23.0	22.0	22.5	25.0	22.0	23.5
24	24.0	21.5	22.5	24.5	23.0	24.0
25	24.0	21.0	22.5	25.0	22.5	24.0
26	24.5	21.5	23.0	25.5	24.0	24.5
27	25.5	22.5	24.0	25.0	23.5	24.0
28	25.5	22.5	24.0	23.5	20.0	22.0
29	25.0	23.0	24.0	20.5	19.0	19.5
30	24.5	22.5	23.5	19.0	17.5	18.0
31	25.0	22.5	23.5	---	---	---
MONTH	---	---	---	25.5	16.5	20.0

01105876 EEL RIVER NEAR PLYMOUTH, MASS.--Continued

TEMPERATURE (°C) OF WATER, AUGUST 1970 TO MAY 1971.--Continued

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	17.0	---	---	---	7.5	6.0	6.5	1.5	0	1.0
2	27.5	15.0	16.5	---	---	---	8.0	6.0	7.0	1.0	0.5	1.0
3	19.0	16.0	17.5	---	---	---	7.0	5.5	6.5	1.5	1.0	1.0
4	18.5	17.0	17.5	---	---	---	8.0	5.0	7.0	2.0	1.0	1.5
5	18.0	15.5	16.5	---	---	---	5.0	2.5	3.5	2.0	1.5	2.0
6	16.0	14.5	15.0	---	---	---	3.0	1.5	2.0	4.0	1.5	3.0
7	---	---	---	---	---	---	1.0	0	0	3.5	2.5	3.0
8	---	---	---	---	---	---	0	0	0	3.0	2.5	2.5
9	---	---	---	9.5	8.5	9.0	1.0	0	1.0	3.0	2.5	2.5
10	---	---	---	9.5	8.5	9.0	2.5	1.5	2.0	3.5	2.5	3.0
11	---	---	---	11.5	9.0	10.5	2.0	1.5	1.5	4.0	3.5	3.5
12	---	---	---	11.5	10.5	11.0	1.5	1.5	1.5	4.5	3.0	4.0
13	---	---	---	10.5	10.0	10.5	1.5	1.5	1.5	3.0	2.0	2.0
14	---	---	---	10.0	9.0	9.5	2.0	1.5	2.0	2.5	2.0	2.5
15	---	---	---	9.0	8.5	9.0	2.0	1.0	1.5	2.5	2.0	2.5
16	---	---	---	9.0	8.0	8.5	1.5	0.5	1.5	2.0	1.5	1.5
17	---	---	---	8.0	6.5	7.5	2.0	1.5	1.5	2.0	2.5	1.5
18	---	---	---	7.0	5.5	6.5	2.0	1.5	2.0	2.0	1.5	1.5
19	---	---	---	7.5	6.5	7.0	2.0	1.0	1.5	2.0	1.5	1.5
20	---	---	---	9.5	7.5	8.5	3.0	2.0	2.5	2.0	1.5	1.5
21	---	---	---	10.0	9.0	9.5	2.5	1.0	1.5	2.0	1.5	1.5
22	---	---	---	9.0	7.5	8.5	1.0	0	0.5	2.0	1.5	2.0
23	---	---	---	9.0	8.0	8.5	1.0	0.5	0.5	2.5	2.0	2.0
24	---	---	---	8.0	5.0	7.0	1.5	1.0	1.0	2.5	2.0	2.5
25	---	---	---	5.0	2.5	4.0	1.0	0.5	0.5	3.0	2.5	2.5
26	---	---	---	3.5	1.0	2.5	1.0	0	0.5	3.5	0.5	3.0
27	---	---	---	4.5	2.0	3.5	0	0	0	3.0	1.5	2.0
28	---	---	---	5.5	3.5	5.0	0.5	0	0.5	1.5	1.0	1.5
29	---	---	---	6.0	5.5	6.0	1.0	0.5	0.5	2.5	1.5	2.0
30	---	---	---	7.5	6.0	6.5	1.0	0.5	0.5	3.0	2.0	2.5
31	---	---	---	---	---	---	1.0	0.5	0.5	2.5	2.0	2.0
MONTH	---	---	---	---	---	---	8.0	0	2.0	4.5	0	2.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.5	1.5	7.5	5.5	6.0	9.0	4.5	6.5	13.5	9.0	11.5
2	2.0	1.5	1.5	7.5	5.5	6.5	11.0	6.0	8.5	14.5	11.5	13.0
3	2.0	1.5	1.5	7.0	5.0	6.0	12.5	8.5	9.5	13.0	10.5	12.0
4	2.0	1.0	1.5	5.5	3.5	5.0	11.5	7.0	9.0	12.0	10.0	11.0
5	2.0	1.0	1.5	3.5	2.5	3.0	10.0	7.5	8.5	---	---	---
6	2.5	1.5	2.0	---	---	---	8.5	8.0	8.0	---	---	---
7	3.0	2.0	2.5	---	---	---	6.0	4.0	5.0	---	---	---
8	3.0	1.5	2.0	8.0	6.0	7.0	6.5	3.5	5.0	---	---	---
9	2.0	1.5	1.5	8.5	5.0	6.5	8.5	4.0	6.0	---	---	---
10	2.5	1.5	2.0	8.0	5.0	6.5	12.5	7.5	9.5	---	---	---
11	3.0	1.5	2.0	7.0	5.5	6.0	10.0	7.0	8.5	---	---	---
12	3.5	2.5	3.0	7.5	4.5	6.0	9.5	6.5	8.0	---	---	---
13	4.0	3.5	3.5	8.5	5.5	7.0	13.0	9.5	10.5	---	---	---
14	4.0	2.5	3.5	8.0	7.0	7.5	11.0	9.5	10.5	---	---	---
15	2.5	1.5	2.0	10.0	6.5	8.0	10.0	7.5	9.0	---	---	---
16	3.5	1.5	2.5	12.0	8.5	10.0	8.5	6.5	7.5	---	---	---
17	4.0	2.5	3.0	10.5	8.5	9.5	9.0	6.0	7.5	---	---	---
18	4.0	3.5	3.5	8.0	6.0	7.0	7.5	6.5	7.0	---	---	---
19	5.0	4.0	4.5	7.5	5.0	5.5	8.5	6.5	7.5	---	---	---
20	4.5	3.5	4.0	6.5	5.0	5.5	9.0	7.5	8.0	---	---	---
21	3.5	2.5	3.0	8.0	4.5	5.5	12.0	8.0	10.0	---	---	---
22	3.0	2.5	3.0	8.0	3.5	5.0	11.0	9.5	10.5	---	---	---
23	3.5	2.5	3.0	7.0	5.0	6.0	10.0	8.5	9.5	---	---	---
24	2.5	2.0	2.0	6.5	4.0	5.5	13.5	8.0	10.5	---	---	---
25	4.0	1.0	1.5	6.0	3.5	5.0	11.0	7.5	10.0	---	---	---
26	5.0	2.0	3.5	6.5	3.0	5.0	10.5	8.5	9.5	---	---	---
27	5.5	3.5	4.5	4.5	0.5	3.5	12.5	8.5	11.0	---	---	---
28	6.5	5.5	6.0	5.0	0.5	3.0	12.5	10.0	11.5	---	---	---
29	---	---	---	6.0	2.0	4.5	11.0	8.0	9.5	---	---	---
30	---	---	---	8.0	4.0	6.0	10.5	7.5	8.5	---	---	---
31	---	---	---	9.0	4.5	6.5	---	---	---	---	---	---
MONTH	6.5	1.0	2.5	12.0	0.5	6.0	13.5	3.5	8.5	---	---	---
PERIOD	29.0	0	---									

01105895 WEWEANTIC RIVER AT SOUTH WAREHAM, MASS.

LOCATION.--Lat 41°46'12", long 70°45'18" Plymouth County, two-parameter monitor at gaging station on left bank at upstream side of bridge on Squire Island Road at South Wareham and 0.2 mile upstream from Horseshoe Pond.

DRAINAGE AREA.--56.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1971 (discontinued).
Water temperatures: August 1970 to September 1971 (discontinued).

EXTREMES.--August to September 1970:
Specific conductance: Maximum, 89 micromhos Sept. 15; minimum, 62 micromhos Aug. 23.
Water temperatures: Maximum, 24.0° C Aug. 16, 17; minimum, 14.5° C Sept. 13, 15, 16.
October 1970 to September 1971:
Specific conductance: Maximum, 437 micromhos Jan. 30; minimum, 44 micromhos Mar. 21, 22, 24, 25, 29.
Water temperatures: Maximum, 25.0° C July 24; minimum, 1.5° C Feb. 10, 11.

REMARKS.--Additional chemical analyses for this station in table of samples collected at miscellaneous sites. Temperature probe not operating Jan. 7 to Feb. 9, Feb. 26 to Mar. 7.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), AUGUST TO SEPTEMBER 1970

	AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	68	65	66
2	---	---	---	67	65	66
3	---	---	---	69	66	67
4	---	---	---	73	66	68
5	---	---	---	70	66	69
6	---	---	---	69	67	68
7	---	---	---	70	67	68
8	---	---	---	69	67	68
9	---	---	---	69	67	68
10	---	---	---	70	66	68
11	---	---	---	73	67	70
12	---	---	---	71	68	69
13	69	65	66	72	69	71
14	68	64	66	74	70	71
15	67	65	66	89	72	78
16	68	65	67	84	71	79
17	69	65	67	79	71	74
18	68	66	67	75	70	72
19	68	66	67	81	73	77
20	68	65	67	75	71	73
21	81	64	73	76	71	72
22	77	66	69	76	71	73
23	66	62	65	74	70	72
24	69	63	65	73	71	71
25	67	63	65	73	71	72
26	66	63	65	73	71	72
27	66	64	65	78	71	73
28	66	64	65	87	77	80
29	70	64	65	87	76	79
30	66	64	66	82	74	77
31	69	64	66	---	---	---
MONTH	---	---	---	89	65	72
YEAR	89	62	70			

01105895 WEWEANTIC RIVER AT SOUTH WAREHAM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	80	75	77	77	73	76	74	71	72	102	80	87
2	81	76	78	77	73	75	76	71	73	88	83	85
3	87	77	80	76	69	72	73	70	71	98	87	93
4	113	82	93	68	64	66	78	69	73	90	78	84
5	102	83	93	67	63	65	126	69	73	130	80	96
6	85	78	81	69	65	67	73	69	71	82	75	78
7	79	76	78	70	62	66	113	71	81	60	54	55
8	80	75	77	69	67	68	116	77	88	94	54	63
9	80	77	78	69	66	68	96	75	82	82	60	62
10	78	75	77	69	64	65	81	73	77	63	60	62
11	79	74	77	73	68	70	99	77	82	66	62	64
12	81	74	76	77	71	73	80	78	79	68	63	65
13	79	71	74	76	72	73	80	76	78	94	67	72
14	77	70	74	75	70	72	85	79	82	101	66	69
15	82	73	75	70	62	67	106	81	86	89	66	72
16	78	71	74	63	58	60	107	82	90	111	67	72
17	75	71	72	64	59	61	165	77	96	108	73	81
18	74	71	73	65	60	63	84	78	81	108	81	94
19	74	71	72	66	62	64	81	73	77	112	94	98
20	71	69	70	67	62	65	76	72	74	111	96	103
21	72	70	71	71	62	66	80	73	76	112	102	108
22	72	70	71	70	64	66	78	75	76	155	96	113
23	84	71	76	68	64	66	105	76	84	144	84	98
24	82	71	75	69	67	68	104	82	87	88	73	78
25	74	70	72	125	66	75	101	88	96	107	73	84
26	72	69	71	116	67	76	99	81	89	142	77	88
27	77	70	73	71	65	69	93	79	83	115	70	81
28	76	72	74	72	67	69	101	79	82	115	70	95
29	78	74	76	73	70	72	102	83	86	116	78	93
30	78	74	77	74	70	72	106	84	90	437	79	157
31	78	74	76	---	---	---	121	89	96	119	87	101
MONTH	113	69	76	125	58	68	165	69	81	437	54	85

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	116	82	104	56	51	53	54	48	51	84	72	78
2	118	89	103	54	52	53	53	48	51	93	80	86
3	117	84	96	55	52	54	57	48	51	88	62	74
4	116	85	93	103	49	62	57	49	52	60	53	55
5	368	86	167	47	45	46	56	48	52	56	53	54
6	173	107	136	---	---	---	55	51	53	57	51	53
7	131	86	109	---	---	---	64	51	58	58	50	54
8	110	74	85	53	52	52	62	56	58	60	52	55
9	78	61	65	55	51	53	62	45	52	64	55	58
10	63	58	60	58	53	56	59	45	50	56	51	53
11	66	60	63	76	51	56	60	50	54	56	47	51
12	69	63	65	53	49	51	61	52	55	52	46	49
13	65	59	63	53	48	50	56	50	53	49	45	46
14	60	55	56	56	48	51	56	49	53	59	46	53
15	58	55	56	51	46	48	59	51	55	58	50	52
16	60	57	58	59	48	52	60	54	56	60	50	54
17	60	58	59	53	47	49	60	56	58	58	47	52
18	91	58	65	50	46	48	59	55	57	59	45	49
19	61	57	59	54	46	48	60	55	58	52	45	48
20	70	57	61	54	46	49	61	56	58	59	47	51
21	62	59	61	50	44	46	66	57	61	61	49	52
22	62	59	61	50	44	47	65	59	62	58	49	53
23	94	61	67	51	45	48	65	58	61	59	48	53
24	62	59	61	52	44	47	70	60	65	58	46	52
25	60	56	58	51	44	47	69	66	66	58	46	50
26	59	56	58	52	45	49	72	65	69	60	47	52
27	62	55	57	53	47	50	85	69	73	61	49	55
28	57	52	54	53	46	50	81	67	72	61	52	56
29	---	---	---	53	44	48	74	64	71	62	52	56
30	---	---	---	55	45	49	71	63	67	62	53	57
31	---	---	---	61	49	53	---	---	---	60	50	54
MONTH	368	52	75	103	44	51	85	45	58	93	45	55

01105895 WEWEANTIC RIVER AT SOUTH WAREHAM, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	58	49	52	100	79	86	---	---	---	73	59	62
2	58	46	52	96	80	86	---	---	---	84	60	66
3	53	46	48	89	77	82	63	61	62	70	61	64
4	58	47	53	96	78	81	61	59	60	92	62	71
5	59	50	54	89	80	83	64	59	61	73	64	67
6	57	48	53	96	82	86	63	59	61	71	65	67
7	59	49	53	107	82	86	65	60	62	69	63	65
8	62	49	54	89	81	86	64	60	62	71	63	66
9	66	51	56	97	81	85	67	61	63	88	64	71
10	68	51	58	87	83	85	67	62	64	75	65	68
11	64	54	57	87	83	85	66	63	64	75	64	69
12	67	54	59	95	84	87	67	60	64	74	66	69
13	63	56	59	92	84	88	64	60	62	75	67	70
14	62	55	58	118	88	94	64	60	62	118	59	97
15	63	56	59	95	86	90	62	60	61	92	68	73
16	68	57	61	121	87	93	64	61	62	72	65	68
17	68	58	63	94	90	91	65	61	63	69	66	67
18	77	60	65	95	90	92	73	62	65	69	66	67
19	83	62	69	93	89	92	75	62	66	71	65	67
20	74	63	68	110	90	99	69	57	65	71	66	68
21	74	64	68	95	87	90	64	61	63	74	67	69
22	74	63	68	90	86	88	63	60	62	76	68	70
23	74	66	69	91	86	88	62	59	61	77	67	71
24	74	66	69	93	88	90	62	58	60	74	67	70
25	78	67	71	94	89	91	62	58	60	84	66	71
26	80	69	73	94	89	91	63	59	61	83	70	74
27	77	70	73	92	88	90	67	57	61	84	72	77
28	90	71	77	---	---	---	66	58	61	89	73	79
29	78	72	75	---	---	---	65	60	62	91	74	81
30	95	76	81	---	---	---	76	60	63	87	73	79
31	---	---	---	---	---	---	64	59	61	---	---	---
MONTH	95	46	63	121	77	88	76	57	62	118	59	71
YEAR	437	44	72									

TEMPERATURE (° C) OF WATER, AUGUST TO SEPTEMBER 1970

	AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	20.0	18.5	19.5
2	---	---	---	19.5	17.5	18.5
3	---	---	---	18.5	16.5	17.5
4	---	---	---	18.5	17.5	18.0
5	---	---	---	19.0	17.5	18.5
6	---	---	---	19.0	17.5	18.5
7	---	---	---	18.0	17.0	18.0
8	---	---	---	17.5	16.5	17.0
9	---	---	---	16.5	15.5	16.0
10	---	---	---	17.5	16.0	17.0
11	---	---	---	18.0	16.5	17.5
12	---	---	---	18.0	15.5	17.0
13	22.0	20.0	21.0	18.0	14.5	16.5
14	22.5	20.0	21.0	17.0	15.5	16.5
15	23.0	20.5	22.0	15.5	14.5	15.0
16	24.0	21.0	22.5	16.5	14.5	15.5
17	24.0	22.0	22.5	16.5	15.0	16.0
18	23.5	21.5	22.5	16.0	15.5	16.0
19	23.0	20.5	21.5	17.5	16.0	16.5
20	21.5	21.0	21.0	18.0	15.5	16.5
21	21.0	19.5	20.5	18.5	16.5	17.5
22	21.5	19.5	20.5	20.0	17.5	18.5
23	20.0	19.5	20.0	21.0	18.5	19.5
24	20.5	19.0	20.0	21.0	19.5	20.5
25	21.0	18.5	19.5	22.0	20.5	21.0
26	21.0	19.0	20.0	22.5	21.0	21.5
27	22.0	19.5	20.5	22.0	19.5	21.0
28	22.0	19.5	20.5	19.5	17.5	18.5
29	22.0	20.0	21.0	18.0	16.5	17.5
30	21.5	19.5	20.5	17.5	16.0	17.0
31	21.5	20.0	20.5	---	---	---
MONTH	---	---	---	22.5	14.5	17.5

01105895 WEWEANTIC RIVER AT SOUTH WAREHAM, MASS.--Continued

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.5	16.0	9.0	8.0	8.5	7.0	6.5	7.0	3.0	2.5	2.5
2	16.0	13.5	15.0	9.5	8.5	9.0	8.0	7.0	7.5	3.5	2.5	3.0
3	17.5	15.0	16.5	11.0	9.5	10.0	7.5	6.5	7.0	3.0	2.5	2.5
4	16.0	14.5	15.5	10.5	10.0	10.5	8.0	6.5	7.5	3.0	2.5	3.0
5	14.5	13.5	14.0	10.5	10.0	10.5	6.5	5.5	6.0	3.5	2.5	3.0
6	15.0	12.5	14.0	10.0	8.5	9.5	5.5	4.0	5.0	2.5	2.0	2.0
7	16.0	13.5	15.0	9.5	8.5	9.0	4.0	2.5	3.5	---	---	---
8	16.0	14.5	15.5	9.0	8.5	9.0	2.5	2.0	2.5	---	---	---
9	16.5	15.0	15.5	8.5	8.0	8.5	4.0	2.5	3.5	---	---	---
10	15.5	15.0	15.5	9.0	8.0	8.5	4.0	3.0	3.5	---	---	---
11	16.5	15.0	16.0	10.0	9.0	9.5	3.5	2.5	3.0	---	---	---
12	17.0	15.0	16.0	11.0	10.0	10.5	3.5	3.0	3.0	---	---	---
13	17.5	15.5	16.5	11.0	10.5	10.5	4.0	3.0	3.5	---	---	---
14	18.0	16.5	17.0	10.5	9.5	10.0	4.0	3.0	3.5	---	---	---
15	19.0	17.5	18.0	10.0	9.5	9.5	3.5	2.5	3.0	---	---	---
16	18.5	15.0	17.0	10.0	8.5	9.5	3.5	2.0	3.0	---	---	---
17	15.0	13.0	14.0	8.5	7.5	8.0	4.0	3.0	4.0	---	---	---
18	13.5	11.5	12.5	7.5	7.0	7.0	---	---	---	---	---	---
19	12.5	10.5	12.0	7.5	7.0	7.5	4.5	4.0	4.0	---	---	---
20	11.5	9.5	10.5	8.5	7.5	8.0	4.0	3.5	3.5	---	---	---
21	11.0	9.0	10.0	9.5	8.5	9.0	4.0	3.0	3.5	---	---	---
22	12.0	10.5	11.0	8.5	8.0	8.5	3.5	3.0	3.0	---	---	---
23	13.5	11.5	12.5	9.0	8.5	8.5	3.5	3.0	3.0	---	---	---
24	14.5	13.0	14.0	8.5	7.0	8.0	4.0	3.0	3.5	---	---	---
25	14.5	14.0	14.5	6.5	5.0	6.0	4.0	2.5	3.0	---	---	---
26	14.0	13.0	13.5	5.5	4.5	5.0	3.0	2.5	3.0	---	---	---
27	13.0	11.0	12.0	5.0	4.5	5.0	3.5	2.5	3.0	---	---	---
28	11.5	10.0	10.5	6.0	4.5	5.0	3.0	2.5	2.5	---	---	---
29	10.5	9.0	9.5	6.5	5.5	6.0	3.0	2.5	2.5	---	---	---
30	10.0	8.5	9.0	7.0	6.0	6.5	3.0	2.5	2.5	---	---	---
31	9.5	8.0	8.5	---	---	---	3.0	2.5	2.5	---	---	---
MONTH	19.0	8.0	14.0	11.0	4.5	8.5	8.0	2.0	4.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.5	6.5	7.5	12.5	9.0	10.0
2	---	---	---	---	---	---	9.0	7.0	8.0	13.5	9.5	11.5
3	---	---	---	---	---	---	9.5	8.5	9.0	12.0	11.0	11.5
4	---	---	---	---	---	---	10.0	7.5	9.0	11.5	10.5	11.0
5	---	---	---	---	---	---	10.0	8.0	9.0	13.0	9.5	11.5
6	---	---	---	---	---	---	9.0	7.0	8.5	13.5	12.0	13.0
7	---	---	---	---	---	---	6.5	5.5	6.0	15.5	12.0	14.0
8	---	---	---	4.0	3.5	4.0	7.0	5.0	5.5	14.5	13.5	14.0
9	---	---	---	4.0	3.0	3.5	8.0	5.5	7.0	13.0	11.5	12.5
10	2.0	1.5	2.0	4.5	3.5	4.0	10.5	8.0	9.0	11.5	10.0	11.0
11	2.0	1.5	2.0	4.5	3.5	4.0	10.0	8.5	9.5	13.5	9.5	11.5
12	2.5	2.0	2.0	4.5	3.5	4.0	10.5	8.0	9.5	16.5	13.5	15.0
13	3.0	2.5	2.5	5.5	4.5	5.0	12.0	9.0	10.5	16.5	16.0	16.5
14	2.5	2.0	2.5	6.0	5.5	6.0	12.0	10.0	11.0	18.5	15.5	17.0
15	2.5	2.0	2.0	7.0	5.5	6.0	11.5	9.0	10.0	18.0	15.5	17.0
16	2.5	2.0	2.5	9.0	7.0	8.0	9.5	8.0	8.5	17.0	13.5	15.5
17	3.0	2.0	2.5	9.0	8.0	8.5	10.0	7.5	8.0	15.5	13.0	14.0
18	3.0	2.5	2.5	8.0	7.0	7.5	8.5	7.5	8.0	17.5	14.0	15.5
19	3.5	2.5	3.0	6.5	6.0	6.0	9.0	7.5	8.5	18.0	16.0	17.0
20	3.0	3.0	3.0	6.5	5.5	6.0	9.5	8.0	8.5	20.0	17.5	19.0
21	3.0	2.5	3.0	6.5	5.5	6.0	12.0	8.5	10.0	20.0	18.5	19.5
22	3.0	3.0	3.0	6.5	5.5	6.0	12.0	9.5	11.0	18.5	17.0	18.0
23	3.5	3.0	3.0	7.0	6.0	6.5	11.5	9.5	10.5	19.0	16.0	17.5
24	3.0	3.0	3.0	7.0	6.0	6.5	13.0	9.0	10.5	18.5	15.5	17.0
25	3.5	3.0	3.0	6.5	5.0	6.0	11.0	9.5	10.0	19.0	17.0	18.0
26	---	---	---	6.5	5.0	5.5	11.0	9.0	10.0	20.5	18.0	19.0
27	---	---	---	6.0	5.0	5.5	11.5	9.0	10.5	20.0	18.0	19.0
28	---	---	---	6.0	4.5	5.0	11.5	8.5	10.0	19.0	17.0	18.0
29	---	---	---	6.5	5.5	6.0	9.5	9.0	9.0	19.0	15.5	17.5
30	---	---	---	7.5	6.0	6.5	10.5	8.5	9.5	17.0	16.5	16.5
31	---	---	---	8.5	6.5	7.5	---	---	---	17.5	15.5	16.5
MONTH	---	---	---	---	---	---	13.0	5.0	9.0	20.5	9.0	15.5

01105895 WEWEANTIC RIVER AT SOUTH WAREHAM, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	15.5	17.0	22.5	20.5	21.5	---	---	---	20.0	18.0	19.0
2	19.0	15.5	17.5	22.0	20.0	21.5	---	---	---	19.5	11.5	18.5
3	18.5	17.5	18.0	22.5	19.5	21.0	24.5	24.0	24.5	20.0	17.5	19.0
4	20.0	17.0	19.0	22.5	18.5	20.5	23.5	22.5	23.0	21.0	19.0	20.0
5	21.0	18.5	20.0	22.5	19.0	20.5	23.0	21.0	22.0	21.5	20.0	21.0
6	21.0	18.0	19.5	24.0	20.5	22.0	23.0	20.0	22.0	21.5	19.5	20.5
7	21.5	19.0	20.0	24.0	21.0	22.5	23.0	20.5	22.0	20.5	19.0	20.0
8	23.0	19.5	21.5	24.5	21.0	23.0	22.5	20.0	21.5	21.5	19.5	20.5
9	23.0	21.0	22.0	23.5	21.0	22.5	23.5	20.5	22.0	22.0	20.0	21.0
10	23.0	20.0	21.5	23.0	21.0	22.0	23.0	21.5	22.5	21.5	20.0	21.0
11	22.0	19.0	20.5	22.0	20.5	21.0	23.0	22.0	22.5	20.5	19.0	20.0
12	21.5	18.5	20.0	22.5	20.0	21.0	22.0	20.5	21.5	21.5	20.0	20.5
13	21.0	19.0	20.0	22.0	19.0	20.5	22.0	19.0	21.0	21.0	20.5	21.0
14	20.5	19.0	19.5	22.0	19.5	20.5	22.0	19.0	20.5	21.0	18.5	19.5
15	20.5	18.0	19.0	21.5	19.5	20.5	21.5	20.0	21.0	21.5	20.0	21.0
16	20.5	17.0	18.5	22.0	18.5	20.5	20.5	18.5	19.5	22.0	20.0	21.0
17	20.5	17.5	18.5	22.0	20.0	21.0	21.0	18.0	19.5	21.5	20.5	21.0
18	22.0	17.5	19.5	22.5	20.0	21.0	21.5	19.0	20.5	21.0	20.5	21.0
19	23.0	18.5	20.0	22.5	19.0	20.5	22.0	20.0	21.0	20.5	19.5	20.0
20	22.5	19.5	20.5	23.5	21.0	22.5	22.5	20.5	21.5	19.5	18.5	19.0
21	23.0	20.0	21.5	24.0	22.0	23.0	22.5	20.5	22.0	20.0	18.5	19.5
22	24.0	21.0	22.5	24.0	22.0	23.0	23.0	21.0	22.0	19.0	17.5	18.0
23	23.0	21.5	22.0	24.0	21.5	23.0	22.0	21.0	21.5	17.5	16.0	17.0
24	23.5	21.5	22.5	25.0	22.5	23.5	21.0	18.5	20.0	18.5	16.5	17.5
25	24.0	21.0	22.0	24.0	23.0	23.5	20.0	17.5	18.5	16.5	14.5	15.0
26	24.5	21.0	22.5	24.5	23.0	23.5	20.5	18.0	19.5	15.0	14.5	15.0
27	24.0	20.5	22.0	23.5	23.0	23.5	19.5	19.0	19.0	15.5	13.5	14.5
28	23.5	20.5	21.5	---	---	---	21.0	19.0	20.0	17.0	15.0	16.0
29	21.0	18.5	20.0	---	---	---	21.5	19.0	20.0	18.0	16.0	17.0
30	23.5	19.5	21.0	---	---	---	22.0	19.5	21.0	18.0	16.5	17.5
31	---	---	---	---	---	---	21.0	19.5	20.5	---	---	---
MONTH	24.5	15.5	20.5	25.0	18.5	22.0	24.5	17.5	21.0	22.0	11.5	19.0
YEAR	25.0	1.5	13.0									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.

LOCATION.--Lat 42°01'16", long 71°34'04", Worcester County, multiple-parameter monitor on left bank 400 ft above railroad bridge, 0.8 mile southeast of Millville, and 1.4 miles upstream from Branch River.

DRAINAGE AREA.--277 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.
Water temperatures: July 1969 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 792 micromhos Feb. 8; minimum, 145 micromhos July 29.
pH: Maximum, 7.3 Dec. 7, 8, 12-15, Aug. 22; minimum, 5.8 July 13.
Dissolved oxygen: Maximum, 14.9 mg/l Feb. 25; minimum, 0.0 mg/l July 12, 15-20, 26-30, Aug. 2, 3.
Water temperatures: Maximum, 27.5° C July 8; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum, 792 micromhos Feb. 8, 1971; minimum, 130 micromhos Feb. 11, 1970.
pH: Maximum, 8.1 July 9, 1970; minimum, 5.5 Sept. 9, 1970.
Dissolved oxygen: Maximum, 14.9 mg/l Feb. 25, 1971; minimum, 0.0 mg/l July 12, 15-20, 26-30, Aug. 2, 3.
Water temperatures: Maximum, 29.0°C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Figures of daily discharge, computed on basis of records for gaging station at Woonsocket and for Branch River at Forestdale, are available at district office. Dissolved-oxygen probe not operating Oct. 1-29, Mar. 7 to Apr. 7.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	357	337	349	282	260	275	320	304	314
2	---	---	---	350	325	340	279	260	271	314	298	308
3	---	---	---	323	283	305	306	283	294	304	280	296
4	---	---	---	304	271	281	306	267	284	300	279	288
5	---	---	---	313	275	299	310	221	262	365	302	337
6	---	---	---	324	287	311	226	212	221	563	325	413
7	---	---	---	324	256	291	244	223	234	656	411	556
8	---	---	---	259	244	253	320	238	269	402	322	349
9	---	---	---	269	241	254	327	309	319	320	310	316
10	---	---	---	307	268	293	322	300	306	315	307	311
11	---	---	---	301	264	275	349	290	306	309	289	295
12	---	---	---	356	266	337	418	359	397	290	280	283
13	---	---	---	335	240	276	389	322	347	297	277	286
14	---	---	---	297	226	253	319	298	304	308	295	301
15	---	---	---	295	237	279	314	293	305	314	293	299
16	---	---	---	244	221	234	371	298	337	312	293	298
17	---	---	---	244	221	228	397	322	370	302	293	297
18	---	---	---	272	222	245	317	294	306	350	306	337
19	---	---	---	289	269	275	349	283	313	332	297	317
20	---	---	---	291	275	283	365	345	356	301	286	292
21	356	339	351	320	280	294	---	---	---	312	292	302
22	366	345	354	283	234	272	---	---	---	288	275	281
23	357	319	342	231	214	222	---	---	---	275	259	270
24	406	244	310	255	232	246	---	---	---	261	253	255
25	238	209	218	273	250	257	---	---	---	---	---	---
26	234	211	220	288	270	276	---	---	---	490	366	379
27	265	237	253	287	277	281	---	---	---	512	357	431
28	287	261	267	297	281	289	---	---	---	490	446	469
29	311	285	299	281	261	268	---	---	---	454	324	379
30	323	305	311	291	273	283	---	---	---	367	275	319
31	342	326	335	---	---	---	325	315	319	331	269	310
MONTH	---	---	---	357	214	278	---	---	---	656	253	330

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	666	285	412	---	---	---	220	204	211	243	229	234
2	673	456	568	---	---	---	228	205	216	248	231	241
3	439	355	384	---	---	---	224	205	214	243	210	227
4	386	338	362	249	239	244	213	188	206	256	209	232
5	355	328	343	291	239	266	198	187	192	231	208	218
6	346	324	335	285	258	269	210	186	198	240	223	229
7	554	321	400	---	---	---	194	185	190	256	232	240
8	792	582	687	---	---	---	335	172	253	244	234	239
9	681	419	522	---	---	---	253	219	235	248	235	244
10	645	421	553	---	---	---	224	207	216	234	195	213
11	598	545	578	274	259	267	213	199	206	213	183	199
12	---	---	---	348	258	280	208	194	202	235	205	217
13	---	---	---	349	303	324	221	194	209	225	208	215
14	---	---	---	321	274	294	240	209	222	225	173	194
15	---	---	---	282	250	272	225	203	212	195	170	189
16	---	---	---	252	212	238	256	225	245	198	169	186
17	---	---	---	216	208	211	248	216	234	182	161	170
18	273	266	268	217	208	214	241	227	234	190	164	178
19	458	276	348	225	205	218	231	219	224	191	161	181
20	455	314	380	230	200	207	243	217	225	201	183	191
21	326	303	315	247	211	228	253	236	244	210	195	202
22	303	278	287	217	210	214	256	249	252	215	201	208
23	298	267	281	225	210	217	265	248	255	215	197	207
24	506	299	407	224	208	217	261	251	256	217	204	208
25	361	304	322	218	206	212	270	253	261	237	218	228
26	335	308	319	220	208	213	260	243	252	240	225	232
27	---	---	---	221	210	215	249	240	244	256	229	244
28	---	---	---	218	209	213	281	244	266	257	238	248
29	---	---	---	219	207	212	268	253	260	265	235	250
30	---	---	---	226	211	218	276	235	260	259	238	250
31	---	---	---	225	208	214	---	---	---	244	224	237
MONTH	---	---	---	---	---	---	335	172	230	265	161	218

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	231	215	222	360	310	340	314	199	248	276	232	260
2	237	218	226	375	336	346	238	195	221	315	277	294
3	252	238	245	395	345	373	267	226	236	341	319	332
4	268	246	259	350	286	328	251	228	241	362	342	353
5	251	230	243	286	270	278	316	250	291	368	353	363
6	258	227	245	290	283	287	357	316	341	362	350	354
7	257	243	251	319	284	306	327	293	302	380	362	373
8	254	238	247	360	324	343	317	282	296	374	358	366
9	268	215	245	368	329	350	326	312	319	361	355	358
10	256	204	229	323	304	312	---	---	---	355	344	349
11	237	198	217	343	321	331	---	---	---	388	346	371
12	267	226	244	344	331	340	427	331	384	394	389	391
13	264	238	248	354	334	347	404	277	322	434	223	266
14	263	242	252	361	335	347	277	249	262	266	225	243
15	302	246	281	400	331	366	295	248	270	314	272	297
16	302	281	290	418	385	407	330	296	314	286	267	275
17	318	304	312	379	312	342	357	332	347	308	280	289
18	351	320	337	449	314	364	348	337	344	317	304	310
19	---	---	---	435	279	355	348	329	340	334	318	326
20	---	---	---	281	239	256	357	349	353	329	323	325
21	---	---	---	306	263	282	413	354	386	341	321	334
22	---	---	---	---	---	---	411	376	403	339	323	333
23	---	---	---	---	---	---	367	292	322	379	334	360
24	---	---	---	---	---	---	306	288	296	359	324	342
25	---	---	---	---	---	---	324	305	315	367	326	350
26	---	---	---	---	---	---	330	323	327	369	346	358
27	---	---	---	328	306	318	352	302	339	373	357	367
28	---	---	---	323	285	306	425	353	389	376	354	363
29	293	269	279	312	145	288	416	294	353	409	378	397
30	306	295	303	301	260	278	289	235	256	417	340	387
31	---	---	---	392	291	346	234	228	231	---	---	---
MONTH	---	---	---	449	145	328	427	195	312	434	223	336
YEAR	792	145	292									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.7	6.6	6.7	7.1	7.0	7.1	6.7	6.7	6.7
2	---	---	---	5.7	6.6	6.7	6.9	6.8	6.9	6.8	6.6	6.7
3	---	---	---	6.7	6.6	6.7	7.2	6.8	6.9	6.8	6.6	6.7
4	---	---	---	6.7	6.7	6.7	7.1	6.8	6.9	6.8	6.7	6.8
5	---	---	---	6.7	6.4	6.5	7.2	7.0	7.1	6.9	6.8	6.8
6	---	---	---	6.8	6.6	6.7	7.2	7.0	7.1	7.0	6.8	6.9
7	---	---	---	6.8	6.7	6.7	7.3	7.2	7.2	6.9	6.7	6.8
8	---	---	---	6.7	6.6	6.7	7.3	6.8	7.2	7.0	6.8	6.9
9	---	---	---	6.8	6.7	6.7	7.2	7.0	7.1	7.1	6.9	7.0
10	---	---	---	6.8	6.7	6.8	7.0	6.9	7.0	7.0	6.9	7.0
11	---	---	---	6.9	6.7	6.7	7.2	6.9	7.1	6.9	6.9	6.9
12	---	---	---	6.8	6.7	6.7	7.3	7.1	7.2	7.0	6.9	6.9
13	---	---	---	6.7	6.5	6.6	7.3	7.2	7.3	6.9	6.8	6.9
14	---	---	---	6.7	6.5	6.6	7.3	7.2	7.2	6.9	6.7	6.8
15	---	---	---	6.7	6.6	6.7	7.3	7.0	7.1	6.7	6.5	6.6
16	---	---	---	6.7	6.6	6.7	7.0	6.8	6.9	6.7	6.6	6.6
17	---	---	---	6.7	6.7	6.7	6.7	6.6	6.7	6.7	6.6	6.7
18	---	---	---	6.7	6.6	6.7	6.7	6.6	6.6	6.8	6.7	6.7
19	---	---	---	6.7	6.6	6.6	6.6	6.6	6.6	7.0	6.9	6.9
20	---	---	---	6.6	6.5	6.6	6.7	6.6	6.6	6.9	6.8	6.9
21	6.7	6.6	6.7	6.7	6.4	6.6	---	---	---	6.9	6.6	6.8
22	6.7	6.7	6.7	6.7	6.6	6.6	---	---	---	6.8	6.7	6.8
23	6.8	6.7	6.7	6.6	6.6	6.6	---	---	---	6.8	6.7	6.8
24	6.8	6.6	6.7	6.9	6.7	6.8	---	---	---	6.8	6.8	6.8
25	6.6	6.5	6.5	7.0	6.9	6.9	---	---	---	---	---	---
26	6.6	6.5	6.5	7.2	7.0	7.1	---	---	---	6.9	6.8	6.9
27	6.7	6.5	6.6	7.1	7.0	7.1	---	---	---	6.8	6.6	6.7
28	6.8	6.7	6.7	7.1	6.9	7.0	---	---	---	6.7	6.4	6.6
29	6.8	6.7	6.7	7.0	6.9	7.0	---	---	---	6.6	6.4	6.5
30	6.8	6.7	6.7	7.1	7.0	7.0	---	---	---	6.7	6.6	6.7
31	6.8	6.7	6.7	---	---	---	6.8	6.7	6.7	6.7	6.6	6.6
MONTH	---	---	---	7.2	6.4	6.7	---	---	---	7.1	6.4	6.8

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.4	6.6	---	---	---	6.7	6.5	6.6	6.7	6.4	6.5
2	6.7	6.7	6.7	---	---	---	6.6	6.5	6.6	6.7	6.4	6.5
3	7.0	6.6	6.7	---	---	---	6.5	6.3	6.4	6.5	6.3	6.4
4	6.7	6.6	6.7	6.8	6.4	6.6	6.6	6.1	6.4	6.6	6.3	6.5
5	6.8	6.6	6.7	6.8	6.4	6.5	6.6	6.5	6.5	6.7	6.3	6.5
6	6.7	6.4	6.6	6.8	6.7	6.8	6.6	6.5	6.5	6.6	6.4	6.5
7	6.7	6.5	6.6	---	---	---	6.7	6.5	6.6	6.8	6.4	6.5
8	6.7	6.6	6.7	---	---	---	6.8	6.4	6.6	6.6	6.3	6.4
9	6.8	6.7	6.8	---	---	---	6.8	6.4	6.6	6.4	6.3	6.4
10	6.9	6.6	6.8	---	---	---	6.8	6.5	6.6	6.8	6.3	6.5
11	6.8	6.6	6.7	6.7	6.7	6.7	6.9	6.7	6.8	6.7	6.4	6.5
12	---	---	---	6.8	6.7	6.7	7.0	6.8	6.9	6.6	6.2	6.4
13	---	---	---	6.9	6.7	6.8	6.9	6.7	6.8	6.3	6.1	6.2
14	---	---	---	7.0	6.8	6.9	6.8	6.5	6.7	6.3	6.1	6.2
15	---	---	---	7.0	6.9	6.9	6.8	6.6	6.7	6.5	6.2	6.3
16	---	---	---	6.9	6.6	6.8	6.7	6.4	6.6	6.4	6.2	6.3
17	---	---	---	6.6	6.5	6.6	6.9	6.5	6.7	6.4	6.2	6.3
18	6.9	6.5	6.7	6.7	6.5	6.6	6.8	6.7	6.8	6.5	6.1	6.3
19	6.8	6.4	6.6	6.5	6.4	6.5	7.0	6.7	6.8	6.5	6.2	6.3
20	6.9	6.5	6.6	6.6	6.4	6.5	6.9	6.6	6.8	6.5	6.2	6.3
21	6.9	6.1	6.7	6.6	6.5	6.6	6.8	6.5	6.6	6.3	6.2	6.3
22	7.0	6.9	7.0	6.7	6.4	6.5	6.8	6.6	6.7	6.3	6.1	6.2
23	7.0	6.5	6.8	6.7	6.5	6.6	6.8	6.6	6.7	6.4	6.1	6.3
24	7.0	6.7	6.9	6.8	6.7	6.8	6.9	6.5	6.7	6.4	6.1	6.3
25	7.1	6.9	7.0	6.8	6.7	6.8	6.7	6.4	6.6	7.0	6.1	6.5
26	7.0	6.8	6.9	6.8	6.6	6.7	6.9	6.6	6.8	6.2	6.0	6.1
27	---	---	---	6.8	6.6	6.7	6.9	6.7	6.8	6.5	5.9	6.1
28	---	---	---	6.8	6.6	6.7	6.8	6.5	6.7	7.0	6.0	6.1
29	---	---	---	6.8	6.6	6.7	6.7	6.6	6.7	6.5	6.1	6.3
30	---	---	---	6.7	6.6	6.7	6.7	6.4	6.5	6.4	6.2	6.2
31	---	---	---	6.6	6.4	6.5	---	---	---	6.6	6.3	6.4
MONTH	---	---	---	---	---	---	7.0	6.1	6.7	7.0	5.9	6.3

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.4	6.6	6.6	6.2	6.4	6.8	6.4	6.6	---	---	---
2	6.6	6.2	6.3	6.6	6.3	6.4	6.7	6.4	6.6	---	---	---
3	6.4	6.1	6.2	6.4	6.0	6.2	6.8	6.4	6.6	6.7	6.5	6.6
4	6.5	6.1	6.3	6.6	5.9	6.3	6.6	6.5	6.6	6.7	6.4	6.5
5	6.4	6.1	6.2	6.6	5.9	6.3	6.9	6.6	6.7	6.7	6.4	6.5
6	6.7	6.0	6.3	6.6	6.0	6.3	7.0	6.6	6.8	6.6	6.4	6.5
7	6.7	6.3	6.4	7.0	6.2	6.5	7.1	6.6	6.8	7.2	6.6	6.7
8	6.6	6.2	6.4	7.1	6.4	6.7	6.9	6.5	6.7	7.0	6.6	6.7
9	6.5	6.3	6.4	6.7	6.3	6.5	6.9	6.5	6.7	6.8	6.5	6.7
10	6.4	6.2	6.3	6.7	6.3	6.5	---	---	---	6.9	6.5	6.7
11	6.5	6.2	6.3	6.6	6.1	6.4	---	---	---	6.9	6.6	6.8
12	6.7	6.3	6.5	6.4	6.2	6.3	7.0	6.7	6.9	6.7	6.6	6.6
13	6.7	6.5	6.6	6.4	5.8	6.2	7.1	6.5	6.8	6.6	6.3	6.5
14	6.8	6.6	6.7	6.7	6.3	6.5	7.1	6.4	6.7	6.5	6.2	6.4
15	6.9	6.5	6.7	6.7	6.2	6.5	7.0	6.6	6.7	6.4	6.2	6.3
16	6.8	6.4	6.6	6.7	6.2	6.5	7.0	6.6	6.8	6.5	6.2	6.3
17	6.9	6.4	6.6	6.7	6.3	6.5	7.0	6.3	6.6	6.3	6.2	6.3
18	6.7	6.5	6.6	6.7	6.1	6.4	7.0	6.5	6.7	6.5	6.3	6.4
19	---	---	---	6.6	6.1	6.4	6.9	6.2	6.6	6.6	6.2	6.5
20	---	---	---	6.5	6.3	6.5	7.0	6.5	6.8	6.8	6.6	6.7
21	---	---	---	6.4	6.1	6.3	7.1	6.7	6.9	6.6	6.5	6.6
22	---	---	---	---	---	---	7.3	6.8	7.0	6.7	6.5	6.6
23	---	---	---	---	---	---	6.9	6.7	6.8	6.8	6.5	6.6
24	---	---	---	---	---	---	6.7	6.4	6.5	6.8	6.5	6.7
25	---	---	---	---	---	---	---	---	---	6.9	6.4	6.7
26	---	---	---	6.5	6.2	6.4	---	---	---	6.9	6.6	6.8
27	---	---	---	6.7	6.2	6.4	---	---	---	6.8	6.7	6.7
28	---	---	---	6.8	6.4	6.5	---	---	---	6.8	6.6	6.7
29	6.5	6.3	6.4	6.9	6.3	6.6	---	---	---	6.7	6.6	6.6
30	6.6	6.4	6.5	6.7	6.5	6.6	---	---	---	6.7	6.5	6.7
31	---	---	---	6.8	6.5	6.6	---	---	---	---	---	---
MONTH	---	---	---	7.1	5.8	6.4	---	---	---	7.2	6.2	6.6
YEAR	7.3	5.8	6.6									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.3	6.2	6.7	8.8	8.0	8.4	10.9	10.5	10.7
2	---	---	---	6.4	5.7	6.1	8.8	7.7	8.3	11.0	10.6	10.8
3	---	---	---	7.1	5.7	6.4	8.6	7.5	8.0	11.3	10.8	11.0
4	---	---	---	6.6	5.7	6.1	8.0	7.5	7.8	11.5	11.1	11.4
5	---	---	---	6.3	5.3	5.8	9.8	8.0	8.9	11.1	10.9	11.0
6	---	---	---	6.5	5.2	6.1	10.3	9.8	10.0	11.2	10.6	11.0
7	---	---	---	6.8	5.7	6.2	11.2	10.4	10.9	12.0	11.2	11.5
8	---	---	---	6.5	6.0	6.3	12.1	11.0	11.6	12.2	11.9	12.1
9	---	---	---	7.7	6.1	6.8	11.5	10.6	11.3	12.4	11.7	12.1
10	---	---	---	6.5	5.7	6.0	10.7	9.9	10.5	12.0	11.4	11.7
11	---	---	---	6.2	5.2	5.6	10.7	9.9	10.3	11.6	10.0	11.4
12	---	---	---	5.8	4.5	5.3	10.7	9.9	10.3	11.5	11.0	11.2
13	---	---	---	5.0	4.2	4.6	11.0	10.4	10.7	11.7	11.1	11.5
14	---	---	---	6.6	4.8	5.8	10.8	10.5	10.7	11.3	11.1	11.2
15	---	---	---	6.2	5.9	6.0	11.0	10.5	10.7	11.2	10.7	11.1
16	---	---	---	6.8	6.3	6.7	11.3	10.7	11.0	11.1	10.6	10.9
17	---	---	---	8.3	6.6	7.6	10.9	10.5	10.7	10.9	10.6	10.7
18	---	---	---	8.7	7.7	8.1	11.1	10.7	10.9	10.7	10.0	10.3
19	---	---	---	7.8	7.1	7.6	11.1	10.7	11.0	10.3	10.0	10.1
20	---	---	---	7.4	6.6	7.0	11.0	10.6	10.8	10.4	10.0	10.3
21	---	---	---	7.3	6.5	6.8	---	---	---	10.0	9.5	9.7
22	---	---	---	7.4	7.0	7.1	---	---	---	9.6	9.4	9.5
23	---	---	---	7.7	6.9	7.4	---	---	---	9.6	9.0	9.3
24	---	---	---	8.5	6.9	7.8	---	---	---	9.4	9.3	9.4
25	---	---	---	9.7	7.8	8.8	---	---	---	---	---	---
26	---	---	---	10.5	9.7	10.1	---	---	---	10.2	9.7	10.0
27	---	---	---	10.0	9.3	9.7	---	---	---	10.4	9.7	10.0
28	---	---	---	9.2	8.9	9.1	---	---	---	10.4	9.9	10.1
29	---	---	---	9.2	8.8	9.0	---	---	---	10.9	10.4	10.7
30	7.3	5.9	6.5	8.8	8.1	8.6	---	---	---	10.6	10.1	10.4
31	7.4	5.7	6.5	---	---	---	10.8	10.6	10.7	10.7	10.1	10.4
MONTH	---	---	---	10.5	4.2	7.0	---	---	---	12.4	9.0	10.7

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.1	10.4	10.8	---	---	---	---	---	---	10.6	8.3	9.4
2	11.4	10.5	11.1	---	---	---	---	---	---	10.0	7.9	8.9
3	11.2	10.0	10.6	---	---	---	---	---	---	8.9	8.2	8.6
4	9.9	9.4	9.6	12.1	11.8	12.0	---	---	---	8.7	8.2	8.4
5	9.4	8.9	9.3	12.4	12.1	12.3	---	---	---	10.3	8.0	9.1
6	9.5	9.2	9.4	12.3	12.0	12.2	---	---	---	8.3	6.8	7.7
7	9.9	9.1	9.3	---	---	---	---	---	---	9.6	6.7	8.0
8	9.9	9.5	9.7	---	---	---	10.9	10.3	10.6	8.2	6.5	7.4
9	10.4	9.9	10.2	---	---	---	11.0	10.2	10.6	8.5	7.0	7.7
10	10.5	9.5	10.0	---	---	---	10.1	9.6	9.9	9.5	8.2	8.7
11	10.5	10.5	10.5	---	---	---	10.0	9.5	9.8	9.2	7.2	8.5
12	---	---	---	---	---	---	10.3	8.0	10.0	8.4	6.3	7.3
13	---	---	---	---	---	---	9.4	8.2	9.0	7.0	5.9	6.5
14	---	---	---	---	---	---	8.6	8.1	8.4	7.5	6.5	7.1
15	---	---	---	---	---	---	10.5	8.6	9.6	8.3	7.7	8.0
16	---	---	---	---	---	---	9.8	8.8	9.2	8.8	8.0	8.3
17	---	---	---	---	---	---	10.4	8.9	9.6	9.3	8.8	9.1
18	11.8	11.1	11.5	---	---	---	10.2	8.7	9.5	9.0	7.0	8.0
19	11.1	10.4	10.9	---	---	---	10.5	9.2	9.8	7.2	6.2	6.8
20	10.9	10.4	10.6	---	---	---	10.1	8.5	9.3	7.2	5.6	6.3
21	11.3	10.7	11.0	---	---	---	9.2	7.8	8.4	6.0	5.1	5.6
22	11.7	11.2	11.4	---	---	---	9.6	7.4	8.4	6.9	5.4	6.2
23	11.4	11.0	11.3	---	---	---	9.9	7.8	8.7	8.3	5.9	6.9
24	13.9	11.0	11.9	---	---	---	10.1	7.9	8.8	8.4	6.3	7.1
25	14.9	11.4	13.6	---	---	---	9.2	7.4	8.3	6.1	4.6	5.6
26	11.7	11.4	11.6	---	---	---	10.1	8.2	9.0	5.7	4.0	4.7
27	---	---	---	---	---	---	10.3	8.6	9.4	5.7	4.2	4.9
28	---	---	---	---	---	---	9.4	8.4	8.8	6.0	4.7	5.3
29	---	---	---	---	---	---	9.5	8.1	8.7	7.0	4.9	5.8
30	---	---	---	---	---	---	9.9	8.5	9.1	6.0	4.9	5.5
31	---	---	---	---	---	---	---	---	---	6.4	5.8	6.0
MONTH	---	---	---	---	---	---	---	---	---	10.6	4.0	7.2

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	6.0	6.9	4.7	0.6	2.0	4.1	0.8	2.0	2.6	1.0	1.7
2	7.7	5.4	6.3	2.7	0.4	1.5	4.5	0.0	2.1	2.6	1.1	1.8
3	6.5	5.0	5.6	3.4	0.4	1.7	3.9	0.0	2.6	4.4	1.0	2.5
4	6.4	4.7	5.4	3.8	0.4	1.9	1.7	0.1	0.8	4.5	0.8	2.4
5	6.9	4.0	5.3	5.0	0.7	2.4	3.9	0.2	1.6	4.4	0.8	2.3
6	6.8	4.5	5.5	5.1	0.5	2.5	3.5	0.1	1.4	2.0	0.8	1.3
7	7.1	4.2	5.5	---	---	---	4.9	0.2	2.0	3.3	1.0	1.8
8	7.4	3.5	5.0	---	---	---	5.2	0.2	2.2	2.8	0.4	1.4
9	4.4	3.2	3.9	---	---	---	5.6	0.1	2.4	3.2	0.4	1.4
10	6.1	3.7	4.6	---	---	---	---	---	---	3.5	0.3	1.5
11	6.3	3.8	4.9	---	---	---	---	---	---	2.7	0.3	1.2
12	6.3	3.8	4.8	3.9	0.0	1.4	5.4	1.7	3.2	1.6	0.2	0.8
13	5.5	3.1	4.2	4.3	0.3	2.0	4.4	1.4	2.6	2.0	0.1	1.3
14	5.6	3.0	4.2	5.3	0.5	2.3	5.7	1.4	3.1	3.0	2.0	2.4
15	5.8	2.9	4.3	5.2	0.0	1.8	5.7	1.3	3.2	3.0	1.8	2.2
16	5.8	2.9	4.3	4.9	0.0	1.7	5.4	0.9	2.7	3.6	1.6	2.4
17	5.4	2.6	3.9	3.7	0.0	1.3	2.2	0.6	1.4	2.8	1.2	1.8
18	4.9	2.3	3.2	4.1	0.0	1.2	2.5	0.8	1.5	2.3	1.2	1.6
19	---	---	---	1.4	0.0	0.5	2.7	0.8	1.6	4.2	1.4	2.7
20	---	---	---	3.7	0.0	1.5	2.4	0.8	1.4	2.3	1.4	1.7
21	---	---	---	---	---	---	2.0	0.8	1.2	3.5	1.1	2.0
22	---	---	---	---	---	---	1.9	0.7	1.2	3.6	1.1	2.2
23	---	---	---	---	---	---	2.4	0.7	1.4	3.4	1.2	2.0
24	---	---	---	---	---	---	2.6	0.9	1.6	3.9	1.1	2.2
25	---	---	---	---	---	---	2.4	0.8	1.5	3.9	1.2	2.2
26	---	---	---	2.0	0.0	0.4	2.5	0.8	1.5	3.8	1.3	2.2
27	---	---	---	2.1	0.0	0.4	1.5	0.8	1.1	4.1	1.2	2.3
28	---	---	---	4.8	0.0	0.8	1.5	0.9	1.1	3.2	1.1	1.9
29	4.2	1.9	3.3	1.2	0.0	0.2	1.4	0.9	1.1	2.6	1.0	1.6
30	5.5	0.9	2.5	3.5	0.0	1.3	2.0	0.9	1.4	3.2	0.8	1.7
31	---	---	---	4.8	0.8	2.0	2.4	0.9	1.5	---	---	---
MONTH	---	---	---	---	---	---	5.7	0.0	1.8	4.5	0.1	1.9
YEAR	14.9	0.0	6.5									

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	9.0	7.5	8.0	6.0	5.0	5.5	0	0	0
2	---	---	---	9.5	8.5	9.0	7.5	5.5	6.5	0.5	0	0
3	---	---	---	10.0	9.0	9.5	6.5	5.5	6.0	0	0	0
4	---	---	---	11.0	10.5	10.5	8.0	6.0	7.0	0	0	0
5	---	---	---	10.5	10.0	10.5	6.0	3.5	4.5	0.5	0	0
6	---	---	---	10.0	8.5	9.5	3.5	2.0	3.0	1.0	0	0.5
7	---	---	---	9.5	7.0	8.5	2.0	0.5	1.0	1.0	0	0.5
8	---	---	---	9.0	7.0	8.0	0.5	0.5	0.5	0	0	0
9	---	---	---	8.0	6.5	7.0	1.5	0.5	0.5	0	0	0
10	---	---	---	9.0	7.5	8.0	2.5	1.5	2.0	0.5	0	0
11	---	---	---	10.5	9.0	9.5	2.0	1.0	1.5	0.5	0	0.5
12	---	---	---	11.0	10.0	10.5	1.5	0.5	1.0	1.5	1.0	1.0
13	---	---	---	11.0	10.0	11.0	1.0	1.0	1.0	1.0	0	0.5
14	---	---	---	10.5	9.5	10.0	1.5	1.0	1.0	0.5	0	0
15	---	---	---	10.0	9.5	10.0	1.0	0	1.0	0.5	0	0
16	---	---	---	9.5	8.0	9.0	0.5	0	0	0.5	0	0
17	---	---	---	8.0	6.5	7.0	0.5	0	0	0.5	0	0
18	---	---	---	6.5	5.5	6.5	1.0	0	0.5	0.5	0	0
19	---	---	---	7.5	6.5	7.0	2.0	0.5	1.0	0.5	0	0
20	---	---	---	9.0	7.5	8.0	2.5	1.5	2.0	0	0	0
21	10.0	9.5	10.0	9.0	8.5	9.0	1.5	1.0	1.0	0.5	0	0
22	11.5	10.0	10.5	8.5	7.5	8.0	---	---	---	0.5	0	0
23	13.5	11.5	12.5	9.0	7.0	8.5	---	---	---	0.5	0	0
24	16.0	14.0	15.0	9.0	5.5	6.5	---	---	---	---	---	---
25	16.0	14.5	15.0	5.5	3.5	4.5	---	---	---	---	---	---
26	14.5	13.0	13.5	3.5	2.5	3.0	---	---	---	0.5	0	0
27	12.5	10.0	11.5	4.5	3.0	4.0	---	---	---	0	0	0
28	10.0	8.5	9.0	5.0	4.0	4.5	---	---	---	0	0	0
29	9.0	7.5	8.5	5.0	4.5	5.0	---	---	---	0	0	0
30	9.0	7.0	8.0	6.5	5.0	6.0	---	---	---	0.5	0	0
31	8.5	7.0	8.0	---	---	---	0.5	0	0	0	0	0
MONTH	---	---	---	11.0	2.5	8.0	---	---	---	1.5	0	0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0	0	0	---	---	---	8.5	5.5	7.0	12.0	9.0	10.5
2	0	0	0	---	---	---	10.5	7.0	8.5	11.5	10.0	11.0
3	0.5	0	0	---	---	---	10.5	9.5	10.0	11.0	10.5	11.0
4	0	0	0	1.5	0.5	1.0	10.5	7.0	9.5	10.5	10.0	10.5
5	0	0	0	1.5	0	1.0	9.0	8.0	8.5	13.5	9.0	11.5
6	0.5	0	0	2.5	0.5	1.0	8.0	6.5	8.0	13.5	12.5	13.0
7	0.5	0	0	---	---	---	6.0	3.5	5.0	15.5	11.5	13.5
8	0	0	0	---	---	---	7.0	4.5	5.5	15.0	13.5	14.0
9	0	0	0	---	---	---	9.0	5.0	7.0	13.5	11.0	12.0
10	0.5	0	0	---	---	---	10.5	7.5	9.0	13.0	11.0	12.0
11	0.5	0	0	---	---	---	9.5	8.5	8.5	17.0	11.5	14.0
12	---	---	---	---	---	---	11.5	7.5	9.5	18.5	15.0	17.0
13	---	---	---	---	---	---	13.0	9.5	11.5	17.5	15.5	16.5
14	---	---	---	---	---	---	12.0	10.0	11.0	17.5	14.5	16.0
15	---	---	---	---	---	---	10.0	7.5	9.0	18.0	14.5	16.0
16	---	---	---	6.5	4.5	5.5	9.0	7.0	8.0	16.5	14.0	15.0
17	---	---	---	4.5	3.0	4.0	10.0	6.0	8.0	16.0	13.0	14.5
18	3.0	2.5	3.0	4.5	2.0	3.0	9.0	8.0	8.5	19.0	14.5	16.5
19	4.0	2.0	3.0	3.5	2.5	3.0	11.0	8.0	9.5	20.5	16.5	18.5
20	3.0	2.5	3.0	3.5	2.5	3.0	12.0	9.5	11.0	21.0	18.0	19.5
21	2.5	2.0	2.0	4.0	2.5	3.0	13.0	10.5	11.5	20.5	18.5	19.0
22	2.5	2.0	2.0	4.5	2.0	3.5	12.0	10.5	11.5	18.5	17.5	18.0
23	2.5	2.0	2.0	4.0	3.5	3.5	11.5	9.5	10.5	18.5	15.5	17.0
24	2.5	1.5	2.0	5.0	3.5	4.5	13.0	9.0	11.0	18.5	15.0	17.0
25	3.0	2.0	2.5	5.0	2.5	4.0	12.5	11.0	11.5	19.5	17.0	18.5
26	3.5	2.0	2.5	5.0	3.0	4.0	11.0	10.0	10.5	19.5	18.5	19.0
27	---	---	---	6.0	4.0	5.0	11.0	9.5	10.5	19.0	17.0	18.0
28	---	---	---	6.5	4.0	5.5	10.5	9.0	10.0	18.0	16.0	17.0
29	---	---	---	7.5	5.5	6.5	10.0	9.5	9.5	19.0	15.5	17.5
30	---	---	---	8.0	5.5	7.0	10.5	9.0	9.5	18.5	16.5	17.0
31	---	---	---	8.5	6.0	7.0	---	---	---	16.5	16.0	16.5
MONTH	---	---	---	---	---	---	13.0	3.5	9.5	21.0	9.0	15.5

BLACKSTONE RIVER BASIN

01111230 BLACKSTONE RIVER AT MILLVILLE, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	15.5	17.0	27.0	24.5	25.5	---	---	---	23.0	20.5	22.0
2	19.5	17.0	18.5	26.0	24.5	25.5	---	---	---	22.0	19.5	21.0
3	19.5	18.0	19.0	25.0	23.0	24.0	---	---	---	22.0	20.0	21.0
4	21.5	18.5	20.0	24.5	21.5	23.0	---	---	---	23.5	21.0	22.0
5	22.0	20.0	21.0	25.0	22.0	23.5	---	---	---	25.0	22.5	23.5
6	21.5	18.5	20.0	25.5	22.5	24.0	---	---	---	24.5	22.5	23.5
7	23.0	19.5	21.5	27.0	24.0	25.5	---	---	---	23.0	21.5	22.0
8	25.5	22.0	23.5	27.5	24.0	26.0	---	---	---	23.5	21.5	22.5
9	24.0	22.5	23.0	26.5	24.5	25.5	---	---	---	24.5	22.5	23.5
10	22.5	20.5	21.5	27.0	25.0	26.0	---	---	---	24.5	22.5	23.5
11	21.5	19.5	21.0	25.5	23.5	24.5	---	---	---	23.5	22.5	23.0
12	22.5	19.5	21.0	25.0	22.5	23.5	25.5	24.5	25.5	23.0	22.5	23.0
13	23.0	21.5	22.0	24.0	21.5	23.0	24.5	22.5	24.0	23.0	22.0	22.5
14	22.0	20.5	21.5	24.5	22.0	23.5	25.0	22.0	23.5	22.0	21.5	21.5
15	21.0	19.0	20.0	25.0	22.0	23.5	24.5	23.0	24.0	22.0	21.0	21.5
16	21.5	19.0	20.5	25.0	22.5	24.0	24.5	23.0	24.0	23.0	20.5	22.0
17	22.5	19.5	21.0	24.5	23.5	24.0	24.5	22.0	23.5	23.0	22.5	22.5
18	24.0	21.0	22.0	25.0	22.5	23.5	25.5	22.5	24.0	22.5	21.5	22.0
19	---	---	---	23.5	21.5	22.5	26.0	22.0	24.5	21.5	20.5	21.0
20	---	---	---	23.0	21.0	22.0	26.5	24.5	25.5	20.0	19.5	20.0
21	---	---	---	22.5	21.5	22.5	26.5	24.5	26.0	20.5	19.5	20.0
22	---	---	---	---	---	---	27.0	24.5	25.5	20.0	18.5	19.0
23	---	---	---	---	---	---	25.5	23.5	24.5	19.0	17.5	18.5
24	---	---	---	---	---	---	23.5	21.0	22.0	19.5	18.0	18.5
25	---	---	---	---	---	---	22.0	19.5	20.5	17.5	16.0	17.0
26	---	---	---	---	---	---	22.5	20.0	21.0	16.5	15.5	16.0
27	---	---	---	---	---	---	21.5	20.0	20.5	16.0	14.5	15.5
28	---	---	---	---	---	---	21.5	19.0	20.5	16.5	15.5	16.0
29	23.5	22.5	23.0	---	---	---	23.0	21.0	22.0	18.0	16.5	17.0
30	25.5	21.5	23.5	---	---	---	24.0	21.5	23.0	19.5	17.5	18.5
31	---	---	---	---	---	---	24.0	22.0	23.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	25.0	14.5	20.5
YEAR	27.5	0	11.5									

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, R.I.

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, two-parameter monitor at gaging station on left bank at Cranston, 0.7 mile upstream from Pocasset River.

DRAINAGE AREA.--200 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1969 to September 1971.
Water temperatures: November 1961 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, greater than 550 micromhos Jan. 30, 31, Feb. 5, 6; minimum, 113 micromhos May 18.
Water temperatures: Maximum, 28.0°C July 8, Aug. 3; minimum, 0.5°C on many days during winter period.

Period of record:
Specific conductance: Maximum greater than 550 micromhos Jan. 30, 31, Feb. 5, 6, 1971; minimum, 65 micromhos Apr. 5, 1970.
Water temperatures: Maximum, 30.0°C July 1, 1964; minimum, freezing point on many days during winter periods 1965-70.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	322	278	300	362	340	354	214	201	206	216	188	201
2	318	290	301	348	263	326	221	200	211	216	198	203
3	329	293	312	265	213	232	256	217	236	196	175	183
4	354	299	317	232	218	227	280	231	261	181	165	175
5	338	306	323	229	211	220	253	217	229	262	180	226
6	346	307	317	223	212	220	272	223	258	257	213	223
7	317	310	314	250	221	237	---	---	---	---	---	---
8	---	---	---	278	250	261	193	175	180	---	---	---
9	---	---	---	295	277	287	197	174	185	---	---	---
10	---	---	---	277	258	272	234	198	214	216	196	209
11	---	---	---	255	232	240	294	252	271	205	160	188
12	---	---	---	256	244	250	275	264	269	174	161	166
13	---	---	---	295	243	268	287	276	282	230	214	221
14	---	---	---	258	227	236	294	258	284	316	238	274
15	---	---	---	252	235	245	266	226	254	269	224	251
16	---	---	---	249	228	239	255	223	242	251	226	238
17	---	---	---	272	236	258	288	215	266	253	215	242
18	---	---	---	240	225	231	206	194	200	212	160	187
19	---	---	---	256	225	244	220	198	198	178	161	170
20	---	---	---	277	252	264	218	185	205	251	175	221
21	326	292	312	290	261	274	189	158	168	266	221	244
22	284	260	274	269	261	265	193	168	174	285	223	252
23	256	177	222	269	228	245	265	200	224	363	266	316
24	262	258	260	302	244	281	308	232	307	427	333	381
25	278	262	271	240	216	227	315	215	247	350	260	293
26	290	260	274	251	232	238	214	181	193	384	277	325
27	277	253	264	260	239	253	190	159	171	368	271	292
28	271	241	253	265	238	246	164	147	156	276	244	254
29	306	240	257	275	267	272	193	150	162	279	224	260
30	350	313	322	275	216	256	214	199	208	>550	251	419
31	355	321	336	---	---	---	219	189	205	>550	393	---
MONTH	---	---	---	362	211	256	308	147	222	>550	160	245

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	395	320	371	134	120	126	220	202	208	282	251	270
2	401	285	345	170	123	144	219	197	207	276	246	257
3	288	220	262	206	139	171	210	204	208	276	149	214
4	263	224	248	340	176	248	235	202	211	155	133	141
5	>550	247	---	197	171	183	239	149	204	199	145	169
6	>550	388	---	192	145	161	170	148	160	178	155	171
7	407	364	377	153	117	140	210	165	194	206	168	182
8	379	267	335	137	118	126	171	143	155	197	182	187
9	257	195	207	---	---	---	162	140	146	182	171	176
10	220	196	202	207	147	186	158	134	144	176	169	172
11	227	216	223	217	193	197	146	135	139	215	170	185
12	267	216	236	202	163	187	155	133	148	233	206	219
13	283	177	267	189	157	171	156	128	136	244	221	232
14	190	170	180	192	146	161	199	153	170	276	237	255
15	176	165	168	143	135	138	267	184	214	269	225	245
16	190	182	187	153	135	143	227	171	209	266	203	245
17	187	180	183	---	---	---	240	202	210	195	115	142
18	229	189	208	---	---	---	224	199	209	132	113	123
19	255	229	248	190	151	169	251	152	217	164	129	146
20	261	223	232	160	137	148	270	150	173	166	146	156
21	236	203	219	142	133	139	258	214	229	180	137	157
22	201	171	183	143	121	132	262	222	239	---	---	---
23	184	165	173	164	123	140	256	221	239	---	---	---
24	204	166	189	181	152	166	272	241	251	---	---	---
25	199	184	191	210	158	181	296	258	272	---	---	---
26	200	165	183	193	183	188	329	277	304	---	---	---
27	193	136	166	204	194	200	335	238	274	244	219	230
28	144	122	137	207	202	205	256	226	233	295	265	269
29	---	---	---	222	186	209	279	239	257	326	280	306
30	---	---	---	185	169	176	281	269	273	301	260	282
31	---	---	---	201	180	189	---	---	---	295	214	278
MONTH	>550	122	236	340	117	168	329	128	208	326	113	208

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	253	162	195	400	328	365	395	342	358	474	385	411
2	190	162	173	375	303	339	351	325	337	387	350	368
3	230	175	211	350	319	338	357	307	325	386	351	370
4	314	226	283	329	288	302	372	326	355	409	388	399
5	363	307	327	291	268	278	359	322	330	433	411	427
6	312	279	290	309	272	291	398	365	383	447	433	439
7	286	267	277	311	283	298	361	341	349	442	429	437
8	267	164	220	291	250	277	369	347	360	450	426	435
9	---	---	---	272	246	258	378	362	371	454	394	440
10	---	---	---	256	233	242	390	368	374	397	353	368
11	---	---	---	236	226	229	372	352	362	404	363	391
12	---	---	---	233	227	230	356	297	324	412	370	390
13	---	---	---	276	203	213	337	287	300	401	366	381
14	---	---	---	219	200	208	412	340	375	400	356	378
15	---	---	---	217	201	208	430	412	420	370	328	353
16	---	---	---	225	202	210	426	412	418	328	308	318
17	---	---	---	216	196	204	412	380	396	365	322	341
18	---	---	---	212	199	205	390	381	386	425	367	389
19	---	---	---	223	145	207	386	370	375	429	395	408
20	---	---	---	176	134	159	386	328	367	449	430	440
21	---	---	---	210	175	193	421	388	403	460	341	396
22	---	---	---	228	203	217	425	387	406	339	262	303
23	---	---	---	277	230	256	395	351	375	312	251	272
24	365	330	351	326	277	299	387	359	370	362	315	336
25	390	355	368	332	320	325	426	386	395	401	349	367
26	412	372	388	329	320	325	390	362	373	415	394	403
27	404	338	366	336	306	318	343	310	327	480	416	434
28	340	317	327	353	326	340	404	345	370	458	380	425
29	342	310	319	---	---	---	402	368	379	379	308	356
30	432	334	387	391	378	382	388	363	379	299	278	286
31	---	---	---	412	384	400	386	358	367	---	---	---
MONTH	---	---	---	412	134	270	430	287	368	480	251	382
YEAR	>550	113	262									

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.5	18.5	11.0	9.0	10.0	7.5	6.5	7.0	1.5	1.0	1.5
2	26.0	16.5	17.5	11.0	10.5	10.5	9.0	7.5	8.0	6.5	1.0	2.0
3	18.5	16.5	17.5	11.0	10.0	10.5	8.0	7.5	8.0	2.5	1.0	1.5
4	19.0	16.5	17.5	11.5	11.0	11.5	9.0	8.0	8.5	2.5	1.5	2.0
5	19.0	15.5	16.5	11.5	10.5	11.0	6.5	6.0	6.0	3.5	2.0	3.0
6	18.0	14.5	16.5	11.0	10.0	10.5	6.0	4.5	5.5	3.0	2.0	2.5
7	17.0	15.5	16.0	11.0	9.5	10.0	---	---	---	---	---	---
8	---	---	---	10.5	9.5	10.0	3.0	2.0	2.5	---	---	---
9	---	---	---	10.0	9.0	9.5	3.0	2.5	3.0	---	---	---
10	---	---	---	10.0	9.0	9.5	4.5	3.0	3.5	2.0	1.0	1.5
11	---	---	---	12.0	10.0	11.0	3.5	3.0	3.5	2.5	2.0	2.5
12	---	---	---	12.5	11.0	11.5	3.0	2.0	2.5	---	---	---
13	---	---	---	11.5	11.0	11.5	3.0	2.0	2.5	2.0	1.5	2.0
14	---	---	---	11.0	10.5	10.5	3.5	2.5	3.0	2.0	1.0	1.5
15	---	---	---	10.5	10.0	10.5	3.0	2.0	2.5	2.0	0.5	1.0
16	---	---	---	10.0	9.0	9.5	2.5	1.5	2.0	1.5	0.5	1.0
17	---	---	---	9.0	8.0	8.5	2.5	1.5	2.0	1.5	0.5	1.0
18	---	---	---	8.5	7.0	8.0	2.5	2.0	2.5	1.5	0.5	1.0
19	---	---	---	9.0	8.0	8.5	3.5	2.5	3.0	1.5	0.5	1.0
20	---	---	---	10.0	8.5	9.0	3.5	3.5	3.5	1.5	0.5	1.0
21	13.0	12.5	13.0	10.5	9.5	10.0	3.5	3.0	3.0	1.5	0.5	1.0
22	13.5	11.5	12.5	10.0	8.5	9.5	2.0	2.0	2.0	2.5	1.0	1.5
23	15.0	12.5	14.0	10.0	9.0	9.5	2.0	1.5	1.5	3.0	1.5	2.0
24	15.5	15.0	15.0	9.0	7.0	8.0	2.0	1.5	1.5	3.5	1.0	2.0
25	15.0	14.5	15.0	7.0	5.5	6.5	2.0	1.0	1.5	3.5	2.0	2.5
26	14.5	13.5	14.0	6.5	5.0	5.5	2.0	1.0	1.5	2.5	1.5	2.0
27	13.0	11.5	12.5	7.0	5.5	6.0	2.0	0.5	1.0	---	---	---
28	12.0	10.5	11.0	7.0	5.5	6.5	2.0	1.0	1.5	1.5	0.5	1.0
29	11.5	10.0	10.5	7.0	6.5	7.0	2.0	1.0	1.5	2.0	0.5	1.0
30	11.0	9.5	10.0	8.5	7.0	7.5	2.0	1.0	1.5	2.5	0.5	1.5
31	10.5	9.0	10.0	---	---	---	2.0	0.5	1.5	2.5	0.5	1.5
MONTH	---	---	---	12.5	5.0	9.0	9.0	0.5	3.0	6.5	0.5	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	5.5	4.0	4.5	8.5	6.5	7.5	13.0	10.5	12.0
2	1.5	0.5	1.0	5.5	3.5	4.5	10.5	7.5	9.0	13.0	11.5	12.0
3	1.5	0.5	1.0	4.5	3.0	4.0	11.0	9.5	10.0	12.5	11.5	12.0
4	2.0	0.5	1.0	3.0	2.0	2.5	11.5	8.5	10.0	11.5	7.0	10.5
5	1.5	0.5	1.0	2.5	1.5	2.0	11.5	10.0	10.5	13.0	9.5	11.5
6	2.5	1.0	1.5	4.0	2.0	3.0	9.5	7.5	9.0	13.0	10.0	12.0
7	3.0	1.0	2.0	4.0	3.5	3.5	7.0	6.0	6.5	14.0	10.5	12.0
8	2.0	1.0	1.5	4.0	3.0	3.5	8.0	5.5	7.0	19.5	15.5	18.5
9	2.5	1.5	2.0	---	---	---	9.5	6.5	8.0	19.5	18.5	19.0
10	2.5	1.0	2.0	4.0	2.5	3.0	10.5	8.5	9.5	19.0	13.0	17.0
11	2.5	1.0	2.0	4.0	3.5	3.5	9.5	8.0	8.5	16.0	12.0	14.0
12	2.5	2.0	2.0	5.0	3.0	4.0	11.0	8.0	9.5	17.5	14.5	16.0
13	4.5	3.0	4.0	5.0	4.0	5.0	11.0	9.0	10.0	16.0	15.5	16.0
14	3.5	2.0	3.0	5.5	4.5	5.0	10.5	9.5	10.0	17.5	15.0	16.0
15	2.5	1.5	2.0	7.0	5.0	5.5	11.0	8.0	9.5	18.0	15.0	16.0
16	2.5	1.5	2.0	8.0	6.5	7.0	11.5	8.0	9.0	16.0	14.0	15.0
17	3.5	2.0	3.0	---	---	---	10.5	7.5	9.0	15.5	13.0	14.0
18	4.5	2.5	3.5	---	---	---	10.0	8.0	9.0	16.5	14.0	15.5
19	---	---	---	5.0	4.5	5.0	13.5	9.0	10.5	17.0	15.0	16.0
20	4.5	4.0	4.5	5.0	4.0	4.5	13.0	9.0	11.0	17.5	15.5	16.5
21	4.0	3.5	3.5	5.5	4.5	5.0	13.5	10.5	12.0	17.5	16.0	16.5
22	3.5	3.5	3.5	6.5	4.0	5.0	12.5	10.5	11.5	17.5	15.5	16.5
23	3.5	3.0	3.5	6.5	5.0	6.0	12.0	10.0	11.5	18.5	16.0	17.0
24	3.0	2.5	3.0	6.0	4.5	5.0	14.0	10.5	12.0	18.5	16.0	17.5
25	4.0	3.0	3.5	5.5	3.5	4.5	14.0	11.0	12.5	19.5	17.5	18.5
26	5.0	3.5	4.5	5.5	4.0	5.0	12.5	11.0	11.5	20.5	18.5	19.5
27	5.0	4.5	4.5	6.0	4.5	5.0	13.5	11.0	12.0	20.0	18.0	19.0
28	5.0	4.0	4.5	7.0	4.0	5.5	12.5	11.0	11.5	19.0	17.5	18.5
29	---	---	---	7.0	6.0	6.5	11.5	10.0	11.0	20.5	17.0	18.5
30	---	---	---	8.0	6.0	7.0	11.5	10.0	11.0	18.0	16.5	17.0
31	---	---	---	8.5	6.5	7.5	---	---	---	18.0	16.5	17.5
MONTH	5.0	0.5	2.5	8.5	1.5	5.0	14.0	5.5	10.0	20.5	7.0	15.5

01116500 PAWTUXET RIVER AT CRANSTON, R.I.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	16.5	18.0	26.5	23.5	24.5	27.0	24.5	25.5	25.0	22.0	23.5
2	20.0	17.5	18.5	26.0	24.0	24.5	27.0	24.5	26.0	24.5	21.5	22.5
3	20.0	18.5	19.0	26.0	22.5	24.0	28.0	25.0	26.5	23.5	21.0	22.5
4	22.5	19.0	21.0	26.0	21.5	23.5	26.5	25.0	26.0	24.5	22.0	23.5
5	23.5	20.5	21.5	26.0	21.5	23.5	26.0	23.5	24.5	25.5	23.0	24.0
6	22.5	20.0	21.0	26.5	22.5	24.5	26.0	23.0	24.5	24.5	22.5	23.5
7	23.5	20.5	22.0	27.0	23.5	25.0	26.5	23.0	24.5	24.0	22.0	23.0
8	25.5	22.0	24.0	28.0	23.5	25.5	26.0	22.0	24.5	24.5	22.5	23.5
9	23.5	23.5	23.5	27.5	24.0	26.0	27.0	23.0	25.0	25.0	23.0	24.5
10	---	---	---	26.0	23.5	25.0	26.5	24.0	25.0	26.0	23.0	24.5
11	---	---	---	24.5	22.5	24.0	26.0	24.0	25.0	24.0	23.0	23.5
12	---	---	---	24.5	22.0	23.5	26.0	23.5	25.0	24.0	23.0	23.5
13	---	---	---	24.5	22.0	23.5	26.5	22.5	24.5	24.0	23.0	23.5
14	---	---	---	25.5	22.0	23.5	26.5	23.5	25.0	24.0	23.0	23.5
15	---	---	---	25.5	21.5	23.5	26.0	24.0	25.0	24.0	22.5	23.0
16	---	---	---	25.0	22.0	23.5	25.5	23.0	24.5	25.0	22.5	23.5
17	---	---	---	25.5	22.0	23.5	26.0	23.0	24.5	24.0	23.5	23.5
18	---	---	---	25.5	22.0	23.5	27.0	23.5	25.0	24.0	23.0	23.5
19	---	---	---	23.5	21.5	22.5	27.0	24.0	25.5	23.5	21.5	22.5
20	---	---	---	23.5	21.5	22.5	26.5	25.0	26.0	22.0	21.0	21.5
21	---	---	---	24.5	21.5	23.0	27.0	25.5	26.0	22.0	21.0	21.5
22	---	---	---	25.0	22.5	23.5	27.0	25.0	26.0	21.5	20.0	21.0
23	---	---	---	25.5	22.5	24.0	26.5	24.0	25.0	21.5	19.5	20.5
24	25.5	23.5	24.5	26.0	23.0	24.5	24.5	22.0	23.5	21.5	19.5	20.0
25	27.0	23.5	24.5	25.0	23.5	24.0	24.5	22.0	23.0	20.5	18.0	19.0
26	26.5	23.5	24.5	24.0	23.0	23.5	24.5	21.5	23.0	18.5	16.0	18.5
27	27.0	23.0	24.5	25.5	23.0	24.0	23.0	22.0	22.0	19.0	17.0	18.0
28	25.5	22.5	24.0	26.5	22.5	24.5	24.0	21.5	22.5	19.0	17.5	18.0
29	23.5	21.5	22.5	---	---	---	25.0	22.0	23.5	20.5	18.0	19.0
30	25.0	21.5	23.0	25.0	24.5	25.0	25.5	22.0	24.0	21.5	19.5	20.0
31	---	---	---	26.0	24.5	25.0	25.5	23.0	24.0	---	---	---
MONTH	---	---	---	28.0	21.5	24.0	28.0	21.5	24.5	26.0	17.0	22.0
YEAR	28.0	0.5	12.5									

01118100 PAWCATUCK RIVER NEAR SOUTH HOPKINTON, R.I.

LOCATION.--Lat 41°23'58", long 71°48'00", Washington County, two-parameter monitor on right bank 15 feet upstream from bridge on Route 3 at Hopkinton-Westerly town line and 2.3 miles southwest of South Hopkinton.

PERIOD OF RECORD.--Chemical analyses: May to October 1971.
Water temperatures: May to October 1971.

EXTREMES.--May to October 1971:
Dissolved oxygen: Maximum, 10.9 mg/l May 11; minimum, 0 mg/l July 8.
Water temperatures: Maximum, 27.0°C Aug. 3; minimum, 9.5°C May 1, 5.

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, MAY TO OCTOBER 1971

	MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.4	10.0	9.0	8.4	8.5	5.5	4.0	3.4	4.1	3.0	4.9	3.7
2	10.5	9.6	8.9	8.2	7.0	5.5	4.4	3.9	5.0	3.5	4.4	3.8
3	10.0	9.1	8.2	7.0	7.0	5.5	---	---	5.5	4.3	4.0	3.4
4	10.0	9.0	7.6	6.5	7.5	6.5	---	---	5.6	4.4	4.0	2.4
5	10.1	9.5	7.6	6.6	8.2	6.5	4.0	2.8	5.4	4.0	3.6	2.6
6	10.0	8.9	6.9	6.0	8.1	6.5	3.4	2.0	5.0	3.7	3.6	3.1
7	9.9	8.8	7.2	6.4	7.2	1.5	3.4	1.9	4.6	3.5	3.6	3.0
8	9.8	9.0	7.4	6.9	3.3	0	4.0	1.7	5.1	3.5	4.1	2.8
9	9.6	8.8	7.4	5.8	6.4	3.2	4.4	2.1	5.0	3.5	3.9	3.0
10	10.8	9.6	6.0	5.4	7.3	4.8	7.5	3.6	5.9	4.2	5.4	3.3
11	10.9	10.0	5.8	5.5	7.0	5.5	6.9	4.0	5.3	4.0	6.9	5.1
12	10.0	9.0	5.6	3.0	8.0	5.0	7.0	4.0	4.2	3.2	7.5	6.3
13	9.0	8.0	5.1	3.1	9.0	6.6	5.0	3.4	4.1	3.0	8.1	7.0
14	8.9	7.8	7.1	5.0	8.9	7.6	5.3	3.8	3.0	2.6	7.8	7.5
15	9.0	8.2	7.4	5.5	9.8	7.6	5.0	3.4	3.8	2.5	7.5	6.0
16	8.7	7.9	7.4	6.0	9.2	6.5	4.4	3.0	5.6	3.5	6.0	5.4
17	9.7	8.0	6.4	5.7	9.5	6.5	3.9	3.0	6.4	5.3	6.0	4.7
18	9.2	8.4	5.9	5.7	9.0	7.3	4.5	3.2	6.0	4.1	5.3	4.5
19	8.4	7.8	6.1	5.3	8.0	7.8	5.8	4.5	4.4	3.5	---	---
20	8.1	7.6	6.0	5.4	8.2	7.0	5.6	4.2	4.3	3.2	---	---
21	8.0	7.0	7.0	5.7	8.0	7.2	4.4	2.5	4.4	3.4	---	---
22	7.5	6.9	7.6	7.0	7.5	6.8	4.9	2.6	4.3	3.5	6.4	4.4
23	8.0	7.2	7.5	5.5	7.0	6.1	4.8	3.1	4.8	3.5	4.9	3.6
24	9.1	7.5	5.5	4.0	6.0	5.3	4.9	3.0	5.1	4.0	4.0	3.4
25	9.4	8.2	5.1	3.0	5.3	4.2	5.4	3.9	5.5	4.6	3.9	3.3
26	8.1	7.4	7.1	3.1	4.6	3.6	5.9	5.0	4.8	3.2	6.9	4.0
27	7.4	6.8	7.1	6.0	4.0	3.4	4.6	3.7	4.6	3.2	6.5	3.4
28	7.4	6.0	7.6	6.0	5.3	3.5	4.0	3.3	5.0	4.0	5.9	5.5
29	7.5	7.0	7.6	6.6	5.4	4.6	3.2	2.9	4.7	3.8	---	---
30	8.0	7.2	9.0	7.0	5.2	3.4	3.9	2.8	5.0	3.6	---	---
31	8.4	8.0	---	---	3.5	2.8	4.0	3.3	---	---	---	---
MONTH	10.9	6.0	9.0	3.0	9.8	0	7.5	1.7	6.4	2.5	8.1	2.4
PERIOD	10.9	0										

01118100 PAWCATUCK RIVER NEAR SOUTH HOPKINTON, R.I.--Continued

TEMPERATURE (° C) OF WATER, MAY TO OCTOBER 1971

	MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.5	17.5	16.5	23.0	22.0	25.0	24.0	23.0	19.0	19.5	16.0
2	11.0	10.0	18.5	17.0	23.5	22.5	26.0	24.5	25.0	20.0	19.5	17.0
3	11.0	10.5	18.5	17.5	24.0	21.0	27.0	25.0	23.5	22.0	18.5	17.5
4	10.5	10.0	17.5	17.0	24.5	21.5	26.5	26.0	25.0	22.0	18.5	16.0
5	12.0	9.5	19.5	17.5	24.5	21.0	25.5	24.5	25.0	22.0	18.5	16.0
6	12.5	11.5	19.5	18.5	25.0	22.0	24.5	23.5	24.0	22.0	18.5	17.5
7	14.0	12.0	21.0	18.5	25.0	23.0	24.0	22.0	23.5	21.5	18.5	15.0
8	14.0	13.0	23.0	21.0	26.0	23.0	24.0	23.0	23.0	21.5	17.5	16.0
9	13.0	11.0	23.5	22.5	26.0	23.5	24.0	22.5	24.0	22.0	16.5	15.5
10	11.5	11.0	22.5	20.5	25.5	23.5	25.5	23.5	26.0	22.5	17.5	16.0
11	13.5	10.5	21.5	19.5	25.0	23.0	24.5	24.0	24.5	22.0	16.5	15.0
12	15.0	13.5	21.0	19.5	25.0	21.5	24.5	23.5	24.0	22.5	16.5	14.5
13	15.5	15.0	21.0	20.0	23.5	21.0	24.5	22.0	24.0	22.5	14.5	13.5
14	16.5	14.0	21.0	19.5	23.0	22.0	24.5	21.5	23.0	22.0	15.0	13.5
15	16.5	15.0	21.0	19.5	24.0	22.5	23.5	22.0	24.5	23.0	17.0	15.0
16	16.0	14.0	20.0	18.0	25.0	22.0	23.5	22.5	24.0	23.5	17.0	15.5
17	14.5	13.0	20.0	19.0	25.0	23.5	25.0	22.0	24.5	23.5	17.0	16.0
18	17.0	14.0	21.5	20.0	25.0	23.0	25.0	22.0	24.5	23.5	15.5	13.5
19	18.0	16.0	23.0	21.5	24.0	23.0	24.5	23.0	23.5	22.5	---	---
20	19.0	17.0	24.0	22.0	23.0	21.0	23.0	24.5	23.5	21.0	---	---
21	19.0	18.0	25.0	23.0	23.5	21.0	25.5	23.5	22.5	20.0	---	---
22	18.0	17.0	24.5	23.5	23.5	22.5	25.5	23.5	21.0	20.0	14.5	13.5
23	18.0	16.0	24.5	23.0	23.5	22.5	25.0	23.0	22.0	20.0	15.5	14.5
24	18.0	16.5	24.5	23.0	23.5	22.5	23.0	20.5	21.0	19.5	15.0	14.0
25	18.0	17.5	24.5	22.5	23.5	22.5	23.0	19.5	21.0	15.0	16.0	15.0
26	19.5	18.0	24.5	23.0	23.0	22.5	21.5	20.0	17.0	15.0	---	---
27	19.5	18.5	24.5	22.5	23.5	22.0	21.0	19.5	17.5	15.5	---	---
28	19.5	17.5	24.0	23.0	25.5	21.5	20.5	19.0	18.0	15.0	---	---
29	18.0	16.5	22.5	22.0	25.5	23.0	22.0	19.0	19.0	17.5	---	---
30	17.5	16.0	22.5	21.5	25.0	24.0	22.5	20.5	19.5	18.5	---	---
31	17.5	15.5	---	---	24.5	24.0	23.5	21.5	---	---	---	---
MONTH	19.5	9.5	25.0	16.5	26.0	21.0	27.0	19.0	26.0	15.0	---	---
PERIOD	27.0	9.5										

01118470 PAWCATUCK RIVER AT WHITE ROCK, R.I.

LOCATION.--Lat 41°23'51", long 71°50'33", Washington County, two-parameter monitor on old trolley bridge 0.2 mile southwest of White Rock and 1.2 miles upstream from gaging station at Westerly.

PERIOD OF RECORD.--Chemical analyses: May to October 1971.
Water temperatures: May to October 1971.

EXTREMES.--May to October 1971:
Dissolved oxygen: Maximum, 14.0 mg/l Aug. 14; minimum, 4.0 mg/l July 9, Aug. 22, 23.
Water temperatures: Maximum, 30.0°C Aug. 14; minimum, 9.5°C May 4, 5.

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, MAY TO OCTOBER 1971

	MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.2	12.0	9.1	10.1	7.8	8.0	5.2	10.4	6.2	10.0	6.6
2	10.1	9.2	13.4	9.2	10.0	7.9	8.7	5.0	10.4	6.9	9.9	6.5
3	9.7	9.5	11.1	8.5	10.7	7.7	10.6	5.3	10.0	5.5	10.3	6.5
4	10.4	9.6	10.1	7.0	10.8	8.4	7.0	4.5	10.0	5.5	10.7	6.9
5	10.8	10.0	10.5	8.5	12.4	8.4	9.6	4.5	10.5	5.6	10.4	6.6
6	10.0	9.2	12.2	9.0	10.5	6.8	9.9	5.2	10.5	5.5	8.1	5.6
7	10.0	9.1	---	---	10.8	6.8	9.9	5.1	9.4	5.5	9.0	5.7
8	9.5	9.2	---	---	9.3	6.0	10.2	4.9	9.7	5.4	9.2	6.0
9	9.6	9.1	---	---	8.0	4.0	10.2	5.1	10.0	5.6	9.9	6.3
10	10.5	9.6	---	---	9.2	5.0	10.9	5.1	10.4	5.5	7.2	6.2
11	10.7	10.1	---	---	8.7	5.5	11.8	6.2	9.0	5.8	7.2	6.2
12	10.1	9.0	---	---	10.1	5.5	12.2	7.1	10.1	5.6	8.3	6.6
13	9.0	8.3	---	---	10.2	7.8	11.9	7.4	9.2	6.0	9.1	7.6
14	8.8	8.4	---	---	9.6	7.0	14.0	6.0	9.3	5.8	9.2	7.5
15	8.7	8.0	---	---	10.0	7.0	13.1	7.0	10.0	5.3	9.1	7.4
16	8.5	8.0	---	---	10.0	6.9	12.5	6.4	8.5	5.6	9.1	7.0
17	9.5	8.4	---	---	10.0	7.0	13.5	6.9	8.2	4.6	9.2	6.8
18	10.0	9.0	---	---	10.7	7.0	12.4	6.1	8.0	5.2	9.2	6.4
19	9.0	8.7	---	---	9.0	7.1	10.0	4.9	9.3	5.8	9.4	6.3
20	8.7	8.3	---	---	8.1	7.0	9.7	5.6	8.4	5.9	9.4	6.2
21	8.4	7.5	---	---	8.3	7.0	9.5	5.0	10.0	5.1	9.0	6.3
22	8.0	7.3	---	---	8.4	6.5	9.3	4.0	10.0	6.0	9.0	6.3
23	8.4	7.5	---	---	8.4	6.5	9.5	4.0	10.0	6.2	9.6	6.4
24	9.2	8.0	---	---	9.6	6.5	9.5	5.5	10.0	5.9	8.1	6.6
25	9.5	9.0	8.1	5.5	7.1	5.9	11.3	6.7	10.4	6.7	7.2	5.7
26	8.2	6.0	7.9	5.4	7.1	5.6	11.5	7.3	10.5	7.0	7.2	5.4
27	9.3	6.8	10.0	6.7	8.0	5.8	8.4	6.4	11.0	7.5	5.8	4.5
28	9.8	6.8	11.0	7.1	8.5	5.3	9.5	5.5	10.3	7.0	6.1	4.4
29	10.3	7.4	12.2	9.4	8.0	5.2	9.4	5.3	11.0	6.9	7.0	5.1
30	9.8	7.9	11.6	8.8	8.2	6.0	9.7	4.9	10.4	4.9	7.4	5.1
31	9.6	8.0	---	---	8.3	5.5	10.0	5.4	---	---	7.2	5.5
MONTH	10.8	6.0	---	---	12.4	4.0	14.0	4.0	11.0	4.6	10.7	4.4
PERIOD	14.0	4.0										

01118470 PAWCATUCK RIVER AT WHITE ROCK, R.I.--Continued

TEMPERATURE (°C) OF WATER, MAY TO OCTOBER 1971

	MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	19.0	14.5	24.5	24.0	26.0	24.0	---	---	20.5	17.5
2	12.0	11.0	18.5	13.5	27.5	24.0	26.0	24.0	23.5	21.5	20.5	17.0
3	11.0	10.0	18.0	13.5	26.0	23.5	26.0	24.0	23.0	21.0	19.5	17.0
4	10.0	9.5	21.0	12.5	25.5	23.0	25.0	21.0	24.5	21.5	17.5	16.5
5	11.0	9.5	19.0	14.0	25.0	23.0	24.5	21.0	25.0	22.0	19.0	16.5
6	12.5	11.0	20.0	13.0	26.0	23.0	23.5	22.0	23.5	22.5	24.0	17.5
7	14.0	12.5	---	---	26.0	23.0	24.0	22.0	22.5	21.5	20.0	15.5
8	14.0	13.0	---	---	28.0	21.0	25.0	22.5	25.0	22.0	17.0	12.5
9	13.0	11.5	---	---	25.5	23.0	26.5	24.0	25.5	22.5	13.0	11.0
10	11.5	11.0	---	---	25.0	23.5	27.0	25.0	25.0	22.5	17.0	12.0
11	15.0	11.0	---	---	24.5	23.0	28.0	26.5	23.0	22.0	15.5	11.5
12	15.0	14.5	---	---	25.0	22.0	29.0	27.0	25.0	22.5	---	---
13	15.0	14.0	---	---	25.0	22.5	28.0	23.5	24.0	22.5	---	---
14	16.0	14.0	---	---	25.5	24.0	30.0	22.0	23.0	22.5	---	---
15	19.5	16.0	---	---	26.5	23.5	28.0	27.0	---	---	---	---
16	21.0	19.5	---	---	26.0	24.5	28.0	25.5	25.0	20.5	---	---
17	20.0	17.0	---	---	29.5	24.5	27.0	24.0	23.0	20.5	---	---
18	19.0	16.5	---	---	27.0	24.0	26.5	24.0	23.0	21.0	---	---
19	19.0	17.0	---	---	25.0	22.5	25.5	23.5	26.0	21.0	---	---
20	19.0	18.0	---	---	23.0	21.5	---	---	21.5	21.0	14.5	13.5
21	19.0	18.0	---	---	22.5	22.5	---	---	---	---	15.0	14.5
22	19.0	17.5	---	---	23.0	22.0	---	---	23.5	20.0	15.0	14.0
23	20.0	18.0	---	---	24.0	22.0	---	---	22.5	19.5	14.5	13.5
24	19.0	18.0	---	---	24.0	23.0	---	---	22.0	19.5	14.5	14.0
25	19.0	17.5	26.5	23.5	24.0	23.0	---	---	20.0	18.0	14.0	14.0
26	21.5	18.0	26.5	24.5	24.0	23.0	---	---	18.0	18.0	15.0	14.0
27	20.0	17.0	26.5	24.5	25.5	23.5	---	---	18.0	17.5	15.5	14.5
28	19.0	16.0	26.0	24.0	26.5	24.0	---	---	18.0	17.5	16.5	15.5
29	20.0	15.0	24.5	23.5	26.0	24.0	---	---	19.0	17.5	17.0	15.5
30	18.5	17.0	25.5	23.5	25.0	24.0	---	---	20.5	17.5	17.0	16.0
31	20.0	17.0	---	---	26.0	24.0	---	---	---	---	17.0	16.0
MONTH	21.5	9.5	---	---	29.5	21.0	---	---	26.0	17.5	---	---
PERIOD	30.0	9.5										

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, on right bank at Quinebaug, 500 ft upstream from bridge on State Highway 197, 0.2 mile downstream from Massachusetts-Connecticut State line. Multiple-parameter monitor on right bank 50 ft upstream from bridge on Massachusetts State Highway 131, 0.2 mile upstream from State line, 0.4 mile upstream from gaging station, and 2.0 miles southwest of Dudley, Mass.

DRAINAGE AREA.--157 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1959 to September 1960, October 1968 to September 1971.
Water temperatures: October 1959 to September 1960, October 1968 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 381 micromhos Feb. 7; minimum, 87 micromhos Apr. 6.
pH: Maximum, 9.0 July 13, 16; minimum, 5.9 June 7, Aug. 4, 19.
Dissolved oxygen: Maximum recorded, 15.5 mg/l Feb. 3; minimum, 1.0 mg/l Aug. 2, 3, Sept. 10.
Water temperatures: Maximum, 30.5° C July 8; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance: Maximum recorded, 393 micromhos Sept. 24, 1970; minimum observed, 49 micromhos Apr. 2 1960.
pH (1968-71): Maximum, 9.0 July 13, 16, 1971; minimum, 4.9 July 18, 1970.
Dissolved oxygen (1968-71): Maximum, 15.5 mg/l Feb. 3, 1971; minimum, 0.4 mg/l Aug. 28, 1970.
Water temperatures: Maximum recorded, 32.5° C July 29, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Miscellaneous samples of chemical data published for water year 1962. PH probe not operating Oct. 1 to Nov. 5.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	176	170	172	162	157	158	158	145	151	152	144	148
2	178	170	174	152	150	151	159	155	157	146	142	144
3	188	155	170	147	143	145	162	150	155	160	143	152
4	165	157	163	156	143	148	149	127	139	166	148	155
5	169	155	160	163	152	158	148	139	144	244	150	191
6	157	142	150	164	156	159	148	137	141	244	194	214
7	153	146	150	168	156	162	154	145	149	221	199	209
8	151	143	146	166	159	162	157	150	153	196	167	189
9	156	140	148	166	156	161	158	138	150	185	175	178
10	153	143	146	170	159	164	163	141	146	177	158	168
11	143	133	138	167	152	161	142	136	139	172	153	161
12	140	133	136	164	145	158	138	136	137	159	148	153
13	149	138	142	177	159	170	141	135	138	159	151	154
14	151	144	148	178	159	171	138	135	136	155	147	152
15	---	---	---	---	---	---	142	138	139	155	148	152
16	---	---	---	---	---	---	174	144	162	163	155	158
17	---	---	---	---	---	---	168	150	154	162	155	157
18	---	---	---	142	139	141	163	148	154	160	155	158
19	---	---	---	145	137	141	169	143	156	169	162	166
20	---	---	---	141	129	137	170	145	159	173	156	160
21	125	120	122	137	122	131	164	156	160	165	150	162
22	125	118	123	141	134	138	184	155	164	172	163	167
23	134	119	125	142	138	139	202	165	182	165	155	160
24	136	116	126	147	140	143	171	160	167	172	167	170
25	152	127	141	142	126	133	---	---	---	178	147	165
26	157	148	151	133	126	129	---	---	---	172	148	156
27	165	154	160	128	125	127	---	---	---	---	---	---
28	168	150	159	129	124	126	---	---	---	---	---	---
29	160	152	155	131	124	127	181	158	165	---	---	---
30	163	157	159	144	131	136	163	155	159	---	---	---
31	164	159	161	---	---	---	159	145	152	---	---	---
MONTH	188	116	149	178	122	147	202	127	152	244	142	165

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	156	150	152	115	108	111	134	123	128
2	---	---	---	159	140	155	114	108	111	124	118	121
3	171	142	149	140	137	138	109	97	102	120	115	118
4	152	140	148	167	123	143	99	92	95	126	116	120
5	150	142	146	164	142	149	94	91	92	128	115	121
6	204	143	174	157	143	148	95	87	91	119	111	114
7	381	190	268	158	145	150	110	94	104	118	111	114
8	207	183	194	163	152	156	105	99	101	119	108	112
9	186	177	180	164	153	159	103	95	100	111	108	110
10	238	195	203	161	152	157	103	98	100	126	108	116
11	220	183	201	184	154	161	102	99	100	126	121	123
12	188	169	176	187	159	171	101	96	99	---	---	---
13	201	157	176	176	158	164	101	98	99	---	---	---
14	178	162	168	166	160	163	104	96	99	---	---	---
15	168	158	162	168	155	164	108	100	105	---	---	---
16	167	157	161	174	160	166	124	109	113	---	---	---
17	165	140	150	140	134	138	129	119	121	---	---	---
18	145	139	142	140	131	135	122	118	120	112	106	109
19	178	138	156	131	121	124	124	110	118	114	108	112
20	177	157	165	142	119	130	119	114	116	117	111	114
21	177	166	172	131	126	129	119	112	116	123	115	119
22	174	170	172	131	124	127	118	113	116	121	115	118
23	---	---	---	129	124	127	119	114	117	118	114	116
24	194	162	176	135	119	128	122	114	118	127	116	121
25	183	163	172	131	116	123	121	115	118	130	123	127
26	176	164	168	133	124	129	124	115	119	132	127	130
27	172	160	168	133	124	128	124	119	121	139	130	134
28	176	156	168	128	119	123	125	119	122	139	135	137
29	---	---	---	126	114	119	122	117	120	140	134	137
30	---	---	---	124	116	119	132	120	126	138	134	136
31	---	---	---	121	111	116	---	---	---	137	133	135
MONTH	381	138	173	187	111	142	132	87	110	140	106	122

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	144	133	138	174	162	166	207	180	191	172	161	166
2	147	140	142	168	151	163	210	183	192	176	163	170
3	145	133	139	166	147	156	229	204	215	184	169	176
4	136	125	130	184	160	167	230	182	203	190	178	181
5	137	129	134	160	155	158	199	165	184	185	178	182
6	128	119	123	161	153	157	167	154	162	184	177	180
7	135	119	123	169	155	162	151	131	145	191	177	182
8	133	125	128	165	149	156	132	121	127	204	185	195
9	133	122	128	172	160	166	130	121	125	213	199	208
10	134	120	126	177	167	172	146	130	137	230	215	223
11	125	118	122	175	167	170	146	123	141	247	227	239
12	127	120	122	180	167	173	144	122	137	232	88	150
13	123	118	121	179	173	175	142	134	138	182	132	161
14	128	121	124	182	172	178	143	136	138	174	129	160
15	148	125	137	186	178	181	141	135	138	152	139	146
16	150	144	148	193	183	186	151	136	143	151	145	147
17	159	145	152	194	182	190	180	140	149	151	144	147
18	161	151	156	193	182	190	197	155	170	156	149	153
19	157	148	154	187	180	184	183	155	170	152	145	149
20	149	146	148	191	186	189	181	168	175	165	147	155
21	159	146	151	194	184	189	193	178	184	180	165	171
22	156	145	150	197	186	191	187	174	181	180	163	168
23	163	148	153	191	178	185	194	173	182	183	170	178
24	168	154	161	199	184	189	189	176	180	185	178	181
25	174	158	165	192	182	185	285	270	278	187	179	183
26	163	155	159	197	183	189	330	270	297	185	180	183
27	176	150	160	203	181	195	293	178	209	189	181	185
28	174	161	167	243	190	203	189	170	180	191	179	184
29	179	156	168	214	199	207	---	---	---	191	179	183
30	180	171	175	205	187	197	161	155	157	207	185	195
31	---	---	---	210	181	198	167	155	160	---	---	---
MONTH	180	118	143	243	147	180	330	121	173	247	88	176
YEAR	381	87	153									

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.1	6.7	6.9	6.9	6.8	6.9
2	---	---	---	---	---	---	7.1	6.8	6.9	6.9	6.8	6.8
3	---	---	---	---	---	---	7.0	6.8	6.9	6.9	6.7	6.8
4	---	---	---	---	---	---	6.9	6.8	6.9	6.8	6.7	6.8
5	---	---	---	---	---	---	7.0	6.9	6.9	6.8	6.7	6.8
6	---	---	---	6.9	6.7	6.8	7.0	6.9	6.9	6.8	6.7	6.8
7	---	---	---	7.0	6.7	6.8	7.0	6.8	6.9	6.8	6.7	6.7
8	---	---	---	6.9	6.7	6.8	7.0	6.8	6.9	6.7	6.5	6.6
9	---	---	---	6.8	6.7	6.7	6.9	6.8	6.9	6.8	6.6	6.7
10	---	---	---	6.8	6.7	6.7	6.9	6.7	6.8	6.8	6.7	6.7
11	---	---	---	6.7	6.7	6.7	6.8	6.7	6.8	6.8	6.6	6.7
12	---	---	---	6.8	6.6	6.7	6.8	6.6	6.7	6.8	6.6	6.7
13	---	---	---	6.8	6.7	6.7	6.8	6.7	6.8	6.8	6.7	6.8
14	---	---	---	7.0	6.7	6.8	6.8	6.5	6.7	6.8	6.7	6.7
15	---	---	---	---	---	---	6.7	6.5	6.6	6.8	6.7	6.7
16	---	---	---	---	---	---	7.0	6.6	6.8	6.8	6.7	6.7
17	---	---	---	---	---	---	6.9	6.5	6.7	6.8	6.6	6.7
18	---	---	---	6.8	6.7	6.8	6.8	6.7	6.7	6.7	6.5	6.6
19	---	---	---	6.8	6.7	6.7	6.9	6.7	6.8	6.7	6.5	6.6
20	---	---	---	6.7	6.6	6.7	6.9	6.8	6.8	7.0	6.7	6.9
21	---	---	---	6.7	6.6	6.6	6.9	6.6	6.8	6.9	6.8	6.9
22	---	---	---	6.7	6.6	6.7	6.7	6.5	6.6	6.8	6.7	6.7
23	---	---	---	6.7	6.6	6.6	6.8	6.5	6.7	---	---	---
24	---	---	---	6.8	6.6	6.6	6.8	6.6	6.7	---	---	---
25	---	---	---	6.8	6.6	6.7	6.8	6.7	6.8	7.0	6.8	6.9
26	---	---	---	6.8	6.7	6.7	6.8	6.7	6.8	7.0	6.7	6.8
27	---	---	---	6.8	6.7	6.7	6.9	6.7	6.8	---	---	---
28	---	---	---	6.7	6.6	6.6	6.8	6.6	6.7	---	---	---
29	---	---	---	6.7	6.6	6.7	7.1	6.6	6.8	---	---	---
30	---	---	---	6.8	6.6	6.7	7.0	6.8	6.9	---	---	---
31	---	---	---	---	---	---	7.0	6.8	6.9	---	---	---
MONTH	---	---	---	---	---	---	7.1	6.5	6.8	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.3	6.0	6.1	6.6	6.3	6.5
2	---	---	---	---	---	---	6.5	6.1	6.3	6.6	6.3	6.5
3	7.0	6.8	6.9	---	---	---	6.3	6.2	6.3	6.6	6.3	6.5
4	7.3	7.0	7.2	6.9	6.7	6.7	6.4	6.3	6.3	---	---	---
5	7.2	7.1	7.1	6.8	6.7	6.8	6.4	6.3	6.4	---	---	---
6	7.1	7.0	7.1	6.9	6.8	6.8	6.4	6.4	6.4	---	---	---
7	7.1	6.9	7.0	6.8	6.8	6.8	6.7	6.5	6.7	---	---	---
8	6.9	6.9	6.9	6.9	6.8	6.8	6.8	6.4	6.6	---	---	---
9	6.9	6.8	6.9	6.9	6.8	6.9	6.5	6.2	6.4	---	---	---
10	7.0	6.7	6.9	6.8	6.7	6.8	6.3	6.1	6.2	---	---	---
11	6.9	6.8	6.9	6.8	6.7	6.8	6.3	6.1	6.2	---	---	---
12	7.0	6.9	6.9	6.8	6.7	6.8	6.5	6.1	6.4	---	---	---
13	7.1	6.8	6.9	6.9	6.7	6.8	6.4	6.2	6.3	---	---	---
14	6.9	6.8	6.9	6.9	6.9	6.9	6.4	6.2	6.3	---	---	---
15	7.0	6.9	6.9	6.9	6.8	6.9	6.4	6.2	6.3	---	---	---
16	6.9	6.7	6.8	6.9	6.8	6.8	6.3	6.2	6.2	---	---	---
17	6.8	6.7	6.8	6.9	6.6	6.8	6.4	6.2	6.3	---	---	---
18	6.9	6.7	6.8	7.0	6.9	6.9	6.5	6.3	6.4	6.9	6.6	6.8
19	6.9	6.7	6.8	7.0	6.8	7.0	6.8	6.4	6.5	6.9	6.4	6.6
20	6.7	6.7	6.7	7.1	6.8	6.9	6.6	6.3	6.5	6.9	6.3	6.6
21	6.8	6.7	6.7	7.1	7.0	7.0	6.7	6.3	6.5	6.7	6.4	6.6
22	6.8	6.7	6.8	7.0	6.8	6.9	6.4	6.2	6.3	6.8	6.4	6.6
23	6.8	6.7	6.7	6.8	6.6	6.7	6.4	6.3	6.3	6.9	6.5	6.7
24	6.8	6.7	6.7	6.8	6.6	6.7	6.4	6.3	6.4	6.8	6.5	6.6
25	6.8	6.7	6.8	6.8	6.7	6.7	6.5	6.3	6.3	6.9	6.4	6.7
26	6.8	6.8	6.8	6.7	6.6	6.6	6.9	6.4	6.5	6.8	6.4	6.6
27	6.9	6.8	6.8	6.7	6.6	6.6	6.6	6.3	6.4	6.7	6.5	6.6
28	6.9	6.7	6.8	6.6	6.5	6.6	6.5	6.2	6.3	6.9	6.2	6.7
29	---	---	---	6.8	6.4	6.5	6.5	6.3	6.4	7.0	6.7	6.8
30	---	---	---	6.6	6.4	6.5	6.6	6.2	6.5	6.9	6.6	6.8
31	---	---	---	6.4	6.1	6.3	---	---	---	7.0	6.8	6.9
MONTH	7.3	6.7	6.9	7.1	6.1	6.8	6.9	6.0	6.4	---	---	---

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.2	6.8	6.9	6.7	6.0	6.2	6.4	6.2	6.3	6.3	6.2	6.3
2	7.0	6.6	6.8	6.4	6.1	6.2	6.3	6.2	6.2	6.3	6.1	6.2
3	6.7	6.4	6.6	6.6	6.1	6.3	6.2	6.1	6.2	6.3	6.1	6.2
4	6.8	6.4	6.6	6.7	6.3	6.4	6.3	5.9	6.1	6.5	6.1	6.3
5	6.7	6.3	6.6	6.9	6.3	6.5	6.6	6.2	6.4	6.7	6.3	6.4
6	6.6	6.1	6.4	7.9	6.4	6.8	6.4	6.2	6.3	6.5	6.3	6.3
7	6.4	5.9	6.3	7.8	6.4	6.9	6.5	6.2	6.3	6.5	6.2	6.3
8	6.4	6.3	6.4	8.4	6.2	6.9	6.5	6.2	6.4	6.6	6.2	6.4
9	---	---	---	8.3	6.3	7.0	6.5	6.2	6.3	7.1	6.5	6.7
10	---	---	---	8.6	6.4	7.2	6.4	6.2	6.3	7.4	6.6	6.7
11	---	---	---	8.1	6.5	7.0	6.6	6.3	6.4	7.0	6.6	6.7
12	---	---	---	8.3	6.5	7.1	6.5	6.1	6.3	6.9	6.6	6.7
13	---	---	---	9.0	6.4	7.2	6.6	6.2	6.4	6.9	6.7	6.8
14	---	---	---	8.7	6.4	7.2	6.7	6.1	6.3	6.8	6.6	6.7
15	---	---	---	8.9	6.4	7.3	6.9	6.2	6.4	6.8	6.4	6.7
16	---	---	---	9.0	6.5	7.3	7.0	6.2	6.5	6.7	6.5	6.6
17	---	---	---	7.3	6.5	6.7	6.9	6.2	6.5	6.7	6.5	6.6
18	---	---	---	7.8	6.4	6.8	6.8	6.3	6.5	6.7	6.6	6.6
19	---	---	---	6.5	6.2	6.4	6.4	5.9	6.2	6.8	6.6	6.7
20	---	---	---	6.6	6.1	6.3	6.3	6.0	6.1	6.9	6.4	6.7
21	---	---	---	6.5	6.0	6.3	6.3	6.0	6.1	6.7	6.5	6.6
22	---	---	---	6.8	6.3	6.5	6.5	6.0	6.3	6.8	6.4	6.7
23	---	---	---	7.2	6.4	6.6	6.6	6.1	6.4	6.8	6.6	6.7
24	---	---	---	7.3	6.4	6.7	6.1	6.1	6.1	6.9	6.5	6.7
25	---	---	---	7.1	6.5	6.7	6.4	6.3	6.4	7.0	6.5	6.7
26	7.0	6.3	6.6	7.2	6.4	6.7	6.4	6.3	6.4	7.0	6.6	6.8
27	6.4	6.2	6.3	6.9	6.3	6.6	6.3	6.0	6.2	7.0	6.5	6.8
28	6.3	6.0	6.2	7.3	6.2	6.6	6.6	6.1	6.4	6.7	6.3	6.5
29	6.4	6.0	6.1	6.9	6.5	6.6	6.5	6.3	6.4	7.0	6.4	6.6
30	6.7	6.0	6.3	6.5	6.3	6.4	6.4	6.2	6.3	6.6	6.3	6.5
31	---	---	---	6.7	6.3	6.5	6.4	6.2	6.3	---	---	---
MONTH	---	---	---	9.0	6.0	6.7	7.0	5.9	6.3	7.4	6.1	6.6
YEAR	9.0	5.9	6.6									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	4.0	4.9	9.8	8.3	8.9	11.6	11.0	11.3	13.5	13.1	13.3
2	6.6	4.2	5.1	9.5	8.3	8.7	11.6	10.7	11.1	13.6	13.3	13.4
3	6.0	4.2	4.8	9.5	8.1	8.7	11.7	11.0	11.3	13.6	13.3	13.5
4	7.4	4.8	6.1	8.6	7.5	8.1	11.4	11.0	11.2	13.7	13.1	13.4
5	7.6	5.4	6.3	8.8	7.6	8.1	12.6	11.6	12.2	13.0	12.7	12.9
6	---	---	---	9.7	8.2	8.8	12.8	12.3	12.6	---	---	---
7	---	---	---	10.4	9.1	9.6	13.3	12.8	13.0	14.3	13.3	13.6
8	---	---	---	10.8	9.3	9.9	13.5	13.1	13.2	13.7	13.1	13.4
9	---	---	---	11.1	9.5	10.1	13.4	12.8	13.0	13.8	13.3	13.5
10	---	---	---	10.1	8.9	9.5	13.3	12.8	13.0	13.7	13.3	13.5
11	---	---	---	9.3	8.4	8.9	13.5	12.9	13.2	13.9	13.4	13.7
12	---	---	---	9.2	8.3	8.7	13.5	12.9	13.2	13.9	13.4	13.7
13	---	---	---	8.9	8.4	8.6	13.7	13.2	13.4	14.4	13.8	14.1
14	---	---	---	9.8	8.9	9.2	13.7	13.2	13.4	13.9	13.5	13.8
15	7.4	6.3	7.0	---	---	---	13.6	13.0	13.3	13.9	13.5	13.7
16	8.2	7.0	7.7	---	---	---	13.7	13.0	13.2	14.0	13.4	13.8
17	9.2	8.1	8.7	---	---	---	13.0	12.6	12.8	14.3	13.6	13.9
18	9.7	9.0	9.3	11.2	11.1	11.2	13.1	12.3	12.7	13.7	13.4	13.6
19	9.7	9.0	9.3	11.1	10.7	10.9	12.6	10.7	11.9	13.5	13.4	13.4
20	9.8	9.2	9.4	10.8	10.1	10.4	---	---	---	---	---	---
21	9.5	8.6	9.1	10.7	10.1	10.4	---	---	---	13.3	12.6	13.1
22	8.9	7.9	8.4	11.4	10.5	11.0	---	---	---	12.8	12.3	12.5
23	8.1	7.4	7.7	11.0	10.4	10.6	---	---	---	---	---	---
24	7.9	6.6	7.3	11.6	10.5	11.2	---	---	---	---	---	---
25	9.5	6.8	7.6	12.2	11.5	12.0	13.6	13.2	13.3	13.5	13.0	13.2
26	8.5	7.5	8.0	12.6	12.0	12.2	13.5	13.0	13.2	13.0	12.4	12.7
27	9.1	7.7	8.4	12.3	11.9	12.1	13.3	13.0	13.1	---	---	---
28	9.4	7.9	8.5	12.1	11.5	11.9	13.3	12.8	13.1	---	---	---
29	9.3	8.1	8.7	11.8	11.4	11.6	13.1	12.6	13.0	---	---	---
30	9.7	8.3	8.9	11.9	11.0	11.4	13.4	13.0	13.2	---	---	---
31	9.6	8.4	8.9	---	---	---	13.5	13.2	13.3	---	---	---
MONTH	---	---	---	12.6	7.5	10.1	13.7	10.7	12.7	---	---	---

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	13.3	12.1	12.7	11.5	10.1	10.8
2	---	---	---	---	---	---	12.8	11.5	12.2	11.1	10.1	10.6
3	15.5	13.9	15.1	---	---	---	12.5	11.5	12.0	10.7	10.0	10.3
4	15.3	14.9	15.1	14.2	13.1	13.8	12.8	11.9	12.3	10.9	10.0	10.5
5	14.7	14.0	14.3	14.5	14.2	14.3	12.7	12.1	12.3	11.1	9.6	10.4
6	14.6	13.5	14.1	14.6	14.1	14.3	12.7	12.0	12.3	10.4	9.3	9.7
7	14.8	14.0	14.4	14.2	13.8	14.0	12.6	12.0	12.3	11.0	9.4	10.2
8	14.4	13.6	14.0	14.2	13.8	14.0	12.7	11.9	12.3	10.6	9.4	10.0
9	13.8	13.1	13.5	14.4	13.9	14.1	12.7	11.7	12.2	10.4	9.7	10.1
10	14.3	12.5	13.8	14.4	13.7	14.1	12.1	11.4	11.8	11.1	10.2	10.6
11	14.6	13.9	14.2	14.0	13.7	13.9	12.2	11.4	11.8	10.8	10.2	10.5
12	14.3	13.6	13.9	14.1	13.3	13.7	12.0	10.8	11.4	---	---	---
13	14.0	13.3	13.6	13.9	13.3	13.6	11.5	10.4	11.0	---	---	---
14	13.9	13.2	13.6	13.8	13.3	13.5	11.0	10.4	10.7	---	---	---
15	14.1	13.7	13.9	13.6	12.7	13.2	11.6	10.6	11.1	---	---	---
16	14.3	13.7	13.9	13.4	12.7	13.1	11.2	10.7	10.9	---	---	---
17	14.3	13.6	14.0	13.6	13.2	13.4	11.9	10.7	11.3	---	---	---
18	13.9	13.4	13.6	14.0	13.3	13.7	11.7	10.8	11.2	9.5	8.3	8.8
19	13.8	13.3	13.5	13.9	13.4	13.7	11.5	10.3	11.0	9.4	8.2	8.8
20	13.6	13.3	13.4	13.6	13.1	13.3	11.5	10.0	10.8	9.2	8.1	8.6
21	13.8	13.3	13.5	13.4	13.2	13.3	11.2	9.8	10.5	9.1	8.3	8.6
22	13.8	13.3	13.5	13.6	12.9	13.3	11.1	9.9	10.4	9.5	8.5	8.9
23	13.3	13.1	13.2	13.3	12.7	13.0	11.1	9.9	10.4	9.9	8.7	9.3
24	13.4	12.9	13.2	13.3	12.8	13.1	11.2	9.6	10.4	10.2	8.5	9.4
25	13.5	13.1	13.3	13.8	13.1	13.5	11.3	9.5	10.5	9.2	7.8	8.6
26	13.8	13.2	13.4	13.7	13.1	13.4	11.4	10.0	10.7	8.9	7.6	8.1
27	13.5	13.0	13.3	13.6	12.7	13.2	11.3	10.1	10.6	9.0	7.7	8.3
28	13.4	13.1	13.3	13.3	12.3	12.8	11.3	10.1	10.6	9.1	7.7	8.4
29	---	---	---	12.8	12.1	12.5	11.2	10.0	10.6	9.1	7.6	8.3
30	---	---	---	13.1	12.3	12.7	11.2	10.4	10.6	9.1	7.7	8.3
31	---	---	---	13.3	12.2	12.7	---	---	---	9.2	8.1	8.5
MONTH	15.5	12.5	13.8	14.6	12.1	13.5	13.3	9.5	11.3	11.5	7.6	9.4

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.1	8.1	8.8	7.4	2.1	3.9	5.8	1.5	3.1	3.9	2.0	2.8
2	9.8	7.7	8.7	5.3	2.8	3.9	4.6	1.0	2.5	4.1	1.7	2.8
3	9.1	7.6	8.1	7.0	2.9	4.6	4.3	1.0	2.2	4.9	1.5	2.9
4	8.8	7.3	8.0	7.5	3.8	5.5	3.9	1.1	2.1	4.9	1.2	2.5
5	9.0	7.2	8.0	8.5	4.1	6.1	5.2	2.0	3.7	5.9	1.2	2.9
6	9.3	7.4	8.2	9.3	4.5	6.7	5.3	3.4	4.2	4.5	1.3	2.6
7	9.2	6.5	7.9	9.0	4.3	6.7	5.6	3.5	4.3	5.5	1.5	3.1
8	8.4	6.2	7.0	9.6	4.0	6.6	6.5	3.8	5.0	3.5	1.2	1.9
9	7.8	5.9	6.7	9.9	4.0	6.7	6.8	3.2	5.0	4.1	1.1	2.2
10	8.1	6.4	7.1	10.1	3.8	6.9	6.0	1.9	3.9	4.8	1.0	2.3
11	8.0	6.4	7.1	10.4	4.1	6.9	6.8	1.6	3.1	4.7	1.1	2.3
12	8.1	6.1	7.0	10.0	4.4	7.0	7.2	1.9	4.1	---	---	---
13	7.8	6.1	6.8	10.5	4.1	7.1	7.1	1.3	3.8	---	---	---
14	8.1	6.2	6.9	10.5	4.3	7.0	7.5	1.4	3.4	---	---	---
15	8.2	6.0	6.9	11.0	4.2	7.3	8.0	1.8	3.8	7.4	6.9	7.1
16	7.9	5.9	6.7	11.6	4.0	7.5	8.0	1.7	4.0	7.5	6.5	7.0
17	8.5	5.2	6.9	9.0	3.8	5.7	7.6	1.2	3.6	7.6	6.5	7.0
18	8.4	5.3	6.6	9.9	3.7	6.5	7.8	1.1	3.3	7.2	6.5	6.8
19	8.5	5.3	6.7	7.4	3.6	5.1	7.2	1.1	3.1	8.3	7.0	7.6
20	9.0	5.1	6.7	8.4	3.6	5.9	6.2	1.1	2.7	8.1	5.6	7.4
21	9.1	4.8	6.6	7.8	2.8	5.0	5.9	1.1	2.6	7.3	6.1	6.6
22	8.4	3.7	5.8	8.2	2.3	4.8	4.6	1.2	2.3	7.6	5.7	6.6
23	7.9	3.6	5.2	7.9	1.6	4.1	4.8	1.3	2.4	7.5	5.7	6.4
24	8.4	2.8	5.2	7.8	2.1	4.5	4.3	1.6	2.5	7.5	5.3	6.2
25	9.1	2.7	5.7	7.7	2.0	4.3	2.8	1.5	1.9	6.9	5.4	6.2
26	8.7	3.0	5.6	5.5	1.9	3.5	2.8	1.4	2.0	8.8	6.0	7.0
27	9.4	3.5	6.2	7.6	2.1	4.0	3.5	1.4	2.2	8.8	5.9	7.1
28	9.3	3.7	6.1	8.8	1.9	4.9	4.7	1.6	3.2	8.0	5.4	6.5
29	6.9	2.7	5.0	7.3	1.8	3.7	4.9	2.9	3.9	8.6	5.1	6.5
30	8.2	2.3	5.0	2.8	1.1	1.8	4.8	2.9	3.7	8.6	4.8	6.2
31	---	---	---	6.5	1.7	3.4	4.5	2.2	3.2	---	---	---
MONTH	10.1	2.3	6.8	11.6	1.1	5.4	8.0	1.0	3.2	8.8	1.0	5.0
YEAR	15.5	1.0	9.2									

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	15.5	17.5	12.0	8.0	9.5	6.5	5.0	5.5	0.5	0	0
2	18.5	15.0	16.5	10.5	8.0	9.0	7.5	5.5	6.5	1.0	0	0
3	20.0	16.0	17.5	12.0	8.5	10.0	7.0	5.5	6.0	1.0	0	0
4	18.5	15.0	16.5	12.5	10.5	11.5	7.5	5.0	6.5	0.5	0	0.5
5	18.0	13.5	15.0	12.0	10.5	11.5	4.5	3.0	3.5	2.5	1.0	1.5
6	17.5	12.0	14.5	11.0	8.5	9.5	3.0	1.5	2.0	3.0	2.0	2.5
7	20.0	14.0	16.5	11.0	7.5	9.0	1.0	0.5	1.0	2.0	0	1.0
8	21.0	16.5	18.5	10.0	7.5	8.5	1.5	0.5	1.0	1.0	0	0.5
9	22.0	18.0	19.5	9.5	6.0	7.5	2.0	1.5	1.5	1.0	0	0
10	19.5	18.0	18.5	9.0	7.0	8.0	3.0	2.0	2.5	1.0	0	0.5
11	20.5	18.0	19.0	11.0	9.0	10.0	2.5	1.5	1.5	1.5	0	0.5
12	20.0	17.0	18.5	12.0	10.5	11.0	2.0	0.5	1.5	1.5	0.5	1.0
13	22.0	18.0	20.0	11.0	10.0	11.0	0.5	0	0.5	0.5	0	0
14	22.0	19.5	20.5	11.0	10.5	10.5	1.5	0.5	0.5	0.5	0	0
15	21.0	19.5	20.0	---	---	---	2.0	0	1.0	0.5	0	0
16	19.5	15.5	17.5	---	---	---	2.0	0	0.5	0.5	0	0
17	15.5	11.0	13.0	---	---	---	2.5	0	1.0	0	0	0
18	12.0	10.0	11.0	6.0	6.0	6.0	2.5	1.0	1.5	0	0	0
19	13.0	10.5	11.5	7.5	6.0	7.0	2.5	1.0	1.5	0.5	0	0
20	12.5	9.5	10.5	9.0	7.5	8.0	3.0	2.0	2.5	0.5	0	0
21	13.0	10.0	11.5	9.5	8.0	8.5	2.0	1.5	1.5	0.5	0	0
22	14.0	12.0	13.0	7.5	6.5	7.0	1.5	1.0	1.0	0.5	0	0
23	15.5	14.0	15.0	8.0	7.5	7.5	2.0	1.0	1.5	---	---	---
24	18.0	15.5	16.5	7.5	4.5	5.5	2.0	0	1.5	---	---	---
25	16.5	14.5	15.5	4.5	3.0	3.5	0.5	0	0	1.5	0.5	1.0
26	14.5	12.5	14.0	3.0	2.5	3.0	0.5	0	0	2.0	1.0	1.5
27	12.5	10.5	12.0	4.0	3.0	3.5	0.5	0	0	---	---	---
28	12.5	9.0	10.5	4.5	3.5	4.0	0	0	0	---	---	---
29	11.5	8.5	9.5	4.5	4.0	4.5	0.5	0	0	---	---	---
30	11.5	7.5	9.0	6.0	4.5	5.0	0.5	0	0	---	---	---
31	11.5	7.5	9.0	---	---	---	1.0	0	0	---	---	---
MONTH	22.0	7.5	15.0	12.5	2.5	8.0	7.5	0	1.5	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.0	3.0	5.0	11.5	8.0	9.5
2	---	---	---	---	---	---	9.0	5.0	7.0	10.5	9.5	10.0
3	0	0	0	---	---	---	8.5	6.5	7.5	10.5	10.0	10.5
4	0.5	0	0	1.0	0	0.5	8.5	5.5	7.0	10.5	9.5	10.0
5	0.5	0	0	1.5	0	0.5	8.0	6.0	7.0	13.0	8.5	11.0
6	2.0	0.5	1.0	2.0	0	1.0	7.5	5.0	6.5	12.5	11.5	12.0
7	1.5	0	0.5	1.0	0.5	1.0	6.5	3.5	4.5	14.5	10.0	12.5
8	1.0	0	0.5	1.5	0	1.0	6.5	3.5	5.0	13.5	12.0	12.5
9	1.5	0.5	1.0	1.5	0	0.5	7.5	3.5	6.0	12.0	10.0	11.0
10	2.5	0	0.5	2.5	0	1.0	9.0	6.0	7.5	12.0	10.0	11.0
11	1.5	0	0.5	1.5	0.5	1.0	9.0	6.5	8.0	16.0	10.0	13.0
12	2.0	0.5	1.0	3.0	0	1.5	11.0	7.0	9.0	---	---	---
13	1.5	1.0	1.5	2.5	1.0	1.5	12.0	8.0	10.0	---	---	---
14	1.0	0	0.5	2.0	1.0	1.5	11.0	8.5	10.0	---	---	---
15	0.5	0	0.5	3.5	1.5	2.5	9.5	7.0	8.5	---	---	---
16	1.0	0	0.5	4.5	2.0	3.0	8.0	6.5	7.5	---	---	---
17	1.0	0	0.5	3.0	1.0	2.0	9.0	5.5	7.5	---	---	---
18	2.0	0.5	1.0	3.0	0.5	1.5	8.5	6.5	7.5	18.0	17.0	17.5
19	2.0	0.5	1.0	2.0	1.0	1.5	11.5	7.5	9.5	20.0	16.0	18.0
20	1.0	0.5	0.5	2.0	0.5	1.5	12.0	9.0	11.0	20.5	17.0	19.0
21	0.5	0	0.5	2.5	1.0	1.5	12.0	10.0	11.0	19.5	17.5	18.5
22	1.0	0.5	0.5	3.5	0.5	2.0	11.0	9.5	10.5	18.5	16.5	17.5
23	1.0	0.5	0.5	4.0	1.5	2.5	11.0	9.0	10.0	18.0	15.0	16.5
24	1.0	0	1.0	4.0	1.5	2.0	12.0	8.5	10.5	19.0	14.5	17.0
25	2.0	0.5	1.0	3.5	0.5	2.0	11.5	9.5	10.0	19.5	16.5	18.0
26	2.5	0	1.5	3.5	1.0	2.0	10.0	9.0	9.5	19.5	18.5	19.0
27	1.5	1.0	1.0	4.5	1.5	3.0	10.5	9.0	10.0	18.5	16.5	17.5
28	2.0	0.5	1.0	5.0	2.0	3.5	10.0	8.5	9.5	17.5	15.5	16.5
29	---	---	---	6.0	3.5	4.5	9.5	8.5	9.0	18.0	15.5	17.0
30	---	---	---	5.5	3.5	4.5	9.5	8.5	9.0	18.0	16.0	16.5
31	---	---	---	6.0	3.0	4.5	---	---	---	17.0	16.0	16.5
MONTH	2.5	0	0.5	6.0	0	2.0	12.0	3.0	8.5	20.5	8.0	14.5

01124000 QUINEBAUG RIVER AT QUINEBAUG, CONN.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	15.0	17.5	29.5	24.5	26.5	28.0	24.0	26.0	26.0	20.0	22.5
2	19.0	17.0	18.5	28.0	24.5	26.5	29.0	24.5	26.5	26.0	18.5	22.0
3	19.5	18.0	18.5	28.0	22.0	24.5	29.5	24.5	26.5	25.5	19.5	22.5
4	21.5	18.5	20.0	28.0	21.0	24.5	28.5	24.5	26.0	27.5	21.0	24.0
5	21.0	19.5	20.5	28.5	21.0	24.0	27.5	23.5	25.0	28.5	22.0	25.5
6	21.0	18.0	19.5	29.0	21.0	25.0	27.0	22.5	24.5	25.0	22.0	23.0
7	23.5	19.0	21.0	29.5	24.0	26.0	27.0	22.5	24.5	25.0	21.0	22.5
8	26.0	22.5	24.0	30.5	23.0	26.5	27.0	22.5	24.5	25.5	21.5	23.5
9	24.0	22.0	23.0	30.0	23.5	26.5	29.0	23.0	25.5	28.0	22.5	25.0
10	23.0	20.5	22.0	29.5	23.5	26.5	30.0	24.0	26.5	27.5	22.0	24.5
11	22.5	20.0	21.0	26.0	22.0	24.0	29.0	25.5	27.0	25.0	21.5	23.5
12	23.5	19.5	21.5	28.0	21.0	24.0	28.5	24.0	26.0	23.5	21.5	22.0
13	23.5	21.0	22.0	27.0	20.0	23.5	28.5	22.0	25.0	23.0	21.5	22.0
14	23.0	20.0	21.0	27.0	21.0	24.0	29.0	22.5	25.0	22.0	20.5	21.5
15	23.0	19.0	20.5	27.5	19.5	23.5	28.0	23.5	25.0	22.5	20.5	21.5
16	24.5	19.5	21.5	28.5	20.5	24.5	27.5	22.5	24.5	23.5	21.5	23.0
17	26.5	20.0	23.0	25.5	22.5	23.5	28.5	20.0	24.0	23.5	22.5	23.0
18	27.0	21.0	23.5	28.0	20.5	24.0	29.5	21.0	25.0	22.5	21.0	22.0
19	27.5	21.5	24.0	23.0	20.0	21.5	29.0	22.0	25.5	22.0	19.5	20.5
20	28.0	22.0	24.5	26.0	21.0	23.0	29.0	23.5	26.0	19.5	19.0	19.5
21	29.0	22.5	25.0	28.0	19.5	24.0	29.0	23.5	26.5	22.0	19.0	20.0
22	29.5	24.0	26.0	28.5	20.5	24.5	29.0	23.0	26.0	22.0	18.5	20.0
23	29.0	24.0	25.5	28.5	20.0	24.0	26.5	21.5	24.0	21.5	17.5	19.5
24	29.5	24.0	26.5	28.5	23.0	25.5	25.0	18.0	20.0	21.0	17.0	19.0
25	30.0	23.5	26.0	27.0	23.0	25.0	25.5	22.0	24.0	20.5	15.5	17.5
26	29.0	24.0	26.0	27.5	23.0	25.0	26.0	19.5	22.5	18.5	15.5	16.5
27	29.0	22.0	25.5	29.0	23.5	26.0	22.0	19.5	20.0	18.5	15.5	16.5
28	28.5	22.5	24.5	29.5	21.0	25.5	23.5	19.5	21.0	18.5	16.0	17.0
29	25.5	21.5	23.0	28.0	22.0	25.0	25.5	20.5	22.5	20.5	17.5	18.5
30	30.0	22.0	25.5	25.5	24.0	24.5	27.0	21.0	23.5	22.0	17.5	19.5
31	---	---	---	28.0	24.0	25.5	26.5	22.0	24.0	---	---	---
MONTH	30.0	15.0	22.5	30.5	19.5	24.5	30.0	18.0	24.5	28.5	15.5	21.0
YEAR	30.5	0	12.5									

01141900 CONNECTICUT RIVER AT WILDER, VT.

LOCATION.--Lat 43°40'04", long 72°18'13", Windsor County, at Wilder Dam at Wilder.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

REMARKS.--Additional chemical analyses for this station in radiochemical and pesticide tables and in table of composited samples.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEM-PERA-TURE (DEG C)	AIR TEM-PERA-TURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.								
06...	0800	4600	116	6.6	7.2	15.1	8.1	110
NOV.								
02...	1600	4200	114	7.7	6.9	10.8	18.7	34
DEC.								
07...	1530	4000	96	9.9	6.9	4.0	-12.0	550
JAN.								
06...	1000	3900	114	10.9	6.9	.8	-1.0	750
FEB.								
08...	1515	3800	106	10.3	7.1	.4	4.0	1000
MAR.								
02...	1900	4000	110	11.1	7.0	.4	4.1	160
APR.								
05...	1700	70000	112	11.2	6.8	3.2	6.5	190
MAY								
04...	1800	9600	66	11.9	6.9	4.9	9.2	160
JUNE								
08...	0900	8800	98	5.0	7.0	17.5	31.6	270
JULY								
12...	1500	8000	108	6.2	7.1	23.5	24.0	483
AUG.								
10...	1000	8900	118	8.6	7.2	22.0	29.0	286
SEP.								
14...	1600	4200	110	6.2	6.8	21.6	22.5	430

DATE	FECAL COLI-FORM (COL. PER 100 ML)	NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METH-YLENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)
OCT.								
06...	18	.4	.91	.020	.03	17	.0	2
NOV.								
02...	5	.4	.60	.040	.04	23	.6	2
DEC.								
07...	74	.1	1.3	.040	.06	33	.0	3
JAN.								
06...	80	.3	.92	.020	.06	25	.0	3
FEB.								
08...	150	.3	.61	.040	.04	26	.0	1
MAR.								
02...	67	.9	.71	.020	.04	22	.0	2
APR.								
05...	17	.8	.81	.030	.05	27	.8	10
MAY								
04...	120	.4	.44	.040	.03	15	5.0	5
JUNE								
08...	2	.3	.29	.010	.04	39	1.1	2
JULY								
12...	5	.1	.32	.030	.04	15	3.6	2
AUG.								
10...	4	.1	.29	.020	.03	14	5.1	4
SEP.								
14...	11	.2	.57	.020	.04	22	2.0	4

01141900 CONNECTICUT RIVER AT WILDER, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JULY, 1971												
12...	8000	--	--	--	31	--	--	--	.26	--	--	--
SEP.												
14...	4200	97	64	28	30	2	1.6	.00	.32	.79	.0	2

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
JULY, 1971											
12...	8000	--	--	15	--	--	--	.06	38	--	--
AUG.											
10...	8500	--	--	--	--	--	--	.07	--	--	--
SEP.											
14...	4200	4.8	280	13	1.5	5.5	1.3	.25	37	11	6.9

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	NITRITE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	COLOR (PLATINUM COBALT UNITS)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JULY, 1971							
12...	--	.010	--	--	--	--	--
AUG.							
10...	--	.010	--	--	--	--	--
SEP.							
14...	.1	.020	39	8	30	0	3.4

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N. H.

LOCATION.--Lat 42°52'20", long 72°12'51", Cheshire County, temperature recorder at gaging station on right bank 15 ft downstream from bridge, at Webb, 2.5 miles south of Marlborough.

DRAINAGE AREA.--36.0 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1954 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 26.0° C July 27; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 33.5° C July 14, 1965; minimum, freezing point on many days during winter periods.

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971 (CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	12.0	6.5	4.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2	13.5	11.0	6.0	4.5	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
3	15.5	13.5	8.0	5.5	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
4	14.5	11.0	8.0	6.5	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
5	12.0	10.5	9.0	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
6	12.0	8.5	6.5	5.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	14.5	11.0	6.5	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	14.5	11.5	6.0	4.5	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
9	15.0	12.0	5.0	3.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
10	15.0	12.0	5.5	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	14.5	14.0	7.0	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	15.0	13.5	8.0	7.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
13	14.5	14.0	8.0	7.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0
14	16.0	14.5	8.0	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
15	16.0	15.5	8.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0
16	15.5	12.0	6.0	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0
17	12.0	9.0	4.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
18	9.0	7.0	4.0	3.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
19	9.0	6.5	4.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
20	8.0	4.5	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
21	8.5	6.0	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
22	9.0	8.5	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5
23	10.0	9.0	4.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0	1.5	0.5
24	11.5	10.0	4.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0
25	11.0	10.5	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0
26	10.5	10.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
27	10.0	6.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
28	7.0	5.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5
29	6.5	4.0	2.0	2.0	0.0	0.0	0.0	0.0	---	---	2.0	1.0
30	6.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0	---	---	1.5	1.0
31	5.5	3.5	---	---	0.5	0.0	0.0	0.0	---	---	2.0	1.0
MONTH	16.0	3.5	8.0	0.5	4.0	0.0	0.5	0.0	0.0	0.0	2.0	0.0

01160000 SOUTH BRANCH ASHUELOT RIVER AT WEBB, NEAR MARLBOROUGH, N. H.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	1.0	7.0	6.0	18.0	13.5	24.0	18.5	21.5	20.0	20.5	16.5
2	2.0	1.5	8.0	7.0	18.5	13.5	21.5	18.5	22.0	21.0	20.5	15.5
3	2.0	1.0	8.0	8.0	17.0	15.0	20.0	16.5	23.0	20.5	21.0	17.0
4	2.0	1.0	8.0	7.0	19.0	15.5	20.5	15.5	21.5	20.5	23.5	19.0
5	2.0	1.0	9.0	6.5	19.0	15.5	21.0	16.0	22.0	19.0	24.5	20.0
6	2.0	1.5	9.0	8.5	18.5	15.0	23.0	16.0	22.0	18.0	23.0	20.5
7	2.0	1.5	10.0	8.0	22.0	16.0	24.5	18.0	23.5	18.0	22.0	19.5
8	2.0	1.0	9.5	9.0	23.5	19.0	25.5	17.0	24.0	18.0	23.0	19.5
9	3.0	1.5	9.5	8.5	23.0	19.0	25.0	19.0	25.0	19.0	23.5	19.5
10	3.0	2.0	10.0	8.5	22.0	16.0	25.0	18.5	25.5	20.0	23.0	17.0
11	3.5	2.0	11.5	9.0	20.5	14.5	22.0	18.5	24.5	21.0	22.0	19.0
12	4.0	2.0	11.5	10.5	21.0	15.0	24.5	17.0	22.0	20.5	21.0	20.0
13	4.5	2.0	11.5	10.5	21.0	18.0	23.5	16.0	23.5	19.5	21.0	20.0
14	3.5	3.5	11.5	9.5	21.0	18.0	24.0	19.5	24.0	19.0	20.0	19.5
15	3.5	2.0	12.0	9.5	20.5	16.0	24.0	17.0	23.0	20.5	20.5	19.0
16	3.5	3.0	11.0	10.5	21.0	16.0	24.5	18.0	24.5	20.0	21.0	19.0
17	4.0	2.0	12.0	10.5	23.5	16.0	25.5	19.5	24.0	18.0	20.0	19.0
18	4.0	3.5	13.5	11.0	24.5	17.0	24.5	18.0	25.5	19.0	20.0	18.5
19	6.5	4.0	15.0	13.0	25.0	18.0	19.5	16.0	25.0	19.5	19.0	17.0
20	7.0	5.0	15.5	13.5	25.5	19.0	20.5	17.0	24.5	21.5	18.0	17.0
21	6.5	5.5	17.0	14.0	23.5	19.0	23.5	15.5	25.0	20.5	19.5	17.0
22	6.0	5.5	14.5	13.5	23.0	19.0	24.0	17.0	25.5	20.5	17.0	15.0
23	5.5	5.0	14.5	11.5	23.5	20.0	25.0	18.0	23.0	19.0	16.5	14.0
24	6.5	4.5	14.5	11.5	25.0	19.5	25.5	19.0	22.0	16.0	16.5	14.0
25	6.5	6.0	15.0	13.5	25.0	19.0	24.0	20.0	21.0	15.5	14.5	11.0
26	6.0	5.5	14.5	14.0	22.0	19.5	25.0	19.5	22.0	18.5	14.5	11.5
27	6.0	5.5	14.0	13.0	22.0	18.0	26.0	20.5	20.5	18.0	13.5	11.0
28	6.0	5.0	14.0	12.0	23.5	19.0	25.5	18.0	18.5	18.0	13.5	13.0
29	6.0	6.0	16.5	11.5	21.0	18.0	24.0	19.5	20.0	18.5	17.0	13.5
30	6.0	6.0	14.5	13.5	25.5	16.5	20.0	19.0	20.0	19.0	18.0	15.0
31	---	---	16.5	14.5	---	---	20.0	19.0	20.5	19.0	---	---
MONTH	7.0	1.0	17.0	6.0	25.5	13.5	26.0	15.5	25.5	15.5	24.5	11.0
YEAR	26.0	0.0										

01161200 CONNECTICUT RIVER AT NORTHFIELD, MASS.

LOCATION.--Lat 42°42'44", long 72°27'14", Franklin County, at bridge on State Highway 142, at Northfield, 1.1 miles downstream from Massachusetts-New Hampshire State line.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

REMARKS.--Additional chemical analyses for this station in radiochemical and pesticide tables and in table of composited samples.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	AIR TEM-PERA-TURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 06...	1400	9330	130	7.8	7.6	--	15.3	14.2	20000
NOV. 03...	0915	3730	114	8.9	6.9	--	9.6	13.1	4000
APR. 06...	0900	13600	102	12.9	7.0	--	1.5	7.7	790
MAY 05...	0830	67000	65	12.9	6.8	--	5.4	15.3	1300
JUNE 08...	1800	9560	116	7.8	7.6	--	20.0	20.7	1800
JULY 13...	1500	1020	133	9.0	7.3	--	24.4	27.5	27
AUG. 10...	1700	1510	148	9.3	7.9	--	25.0	32.5	109
SEP. 15...	1000	8890	124	7.5	7.1	32	21.5	19.0	>2000

DATE	FECAL COLI-FORM (COL. PER 100 ML)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 06...	75	--	.5	.68	.050	.04	13	1.4	5	--	--
NOV. 03...	44	--	.4	.66	.080	.04	21	.1	1	--	--
APR. 06...	43	--	.3	.90	.050	.04	15	1.9	10	--	--
MAY 05...	95	--	.3	.58	.12	.02	22	2.0	20	--	--
JUNE 08...	16	--	.2	.60	.020	.06	12	5.4	2	--	--
JULY 13...	0	.010	.1	.57	.040	.03	14	8.0	10	.11	44
AUG. 10...	1	.020	.1	.53	.040	.03	17	8.0	7	.07	--
SEP. 15...	--	.010	.1	.48	.030	.05	20	4.9	5	.08	46

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
JULY, 1971 13...	--	--	--	36	--	--	--	.46	--	--	--	18
SEP. 15...	100	71	24	38	3	1.6	.00	.40	.59	.0	0	16

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTAS-SIUM (K) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
SEP., 1971 15...	4.1	110	1.6	6.0	1.5	10	8.5	.1	47	9	0	2.5

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.
(International Hydrological Decade River Station and radiochemical program)

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, at gaging station on canal of Connecticut Light and Power Co., 1 mile downstream from Thompsonville. Multiple-parameter monitor on right bank at Agawam, Mass., 4.5 miles upstream from gaging station and 1.4 miles upstream from Massachusetts-Connecticut State line.

DRAINAGE AREA.--9,661 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, January 1966 to September 1971.
Water temperatures: October 1955 to September 1956, January 1969 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 217 micromhos Feb. 9; minimum, 58 micromhos Apr. 20.
pH: Maximum, 8.7 July 22; minimum, 6.3 Aug. 4, 10, 11.
Dissolved oxygen: Maximum, 15.9 mg/l Feb. 17; minimum, 1.0 mg/l Aug. 20.
Water temperatures: Maximum, 29.0° C Aug. 22; minimum, freezing point on several days during winter period.

Period of record:
Specific conductance: Maximum, 217 micromhos Feb. 9, 1971; minimum, 49 micromhos Apr. 23, 1969.
pH: Maximum, 9.7 Aug. 9, 1970; minimum, 5.9 July 20, 21, 1969, May 26, 1970.
Dissolved oxygen (1966-71): Maximum, 15.9 mg/l Feb. 17, 1971; minimum, 1.0 mg/l Aug. 20, 1971.
Water temperatures: Maximum, 31.5° C Aug. 16, 1970; minimum, freezing point on several days during winter periods of 1970 and 1971 water years.

REMARKS.--Recorder stopped Dec. 10-28, May 6-25, Sept. 19-28. PH probe not operating Oct. 1-27, June 26 to July 15. Additional chemical analyses for this station in table of composited samples.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	PH (UNITS)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TEM-PERA-TURE (DEG C)	AIR TEM-PERA-TURE (DEG C)
OCT.										
09...	5930	136	--	--	--	--	--	--	17.0	--
15...	4570	158	4.8	63	6.4	260000	23000	1800	18.0	20.0
NOV.										
12...	4850	130	5.5	47	6.3	480000	11000	3200	9.0	15.0
DEC.										
10...	8570	130	11.0	79	6.5	130000	6300	9000	2.0	6.5
JAN.										
14...	5950	137	11.6	81	6.7	150000	400	9800	.5	--
FEB.										
11...	6660	168	10.5	75	6.9	60000	6300	7800	1.5	-3.5
MAR.										
11...	14200	140	11.3	84	7.4	25000	1700	3600	3.0	.1
APR.										
15...	63600	78	10.2	82	7.1	3000	760	430	6.0	6.0
MAY										
13...	50900	75	10.0	93	7.0	20000	240	550	12.0	12.0
JUNE										
10...	8570	110	7.2	82	6.3	78000	3700	280	22.0	22.0
JULY										
15...	2530	134	9.8	120	6.3	25000	2000	1600	26.0	24.5
AUG.										
19...	2250	150	4.5	55	6.6	100000	2300	900	26.5	29.0
SEP.										
16...	6480	120	4.0	47	6.6	110000	16000	230	24.0	28.0

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	CHLO-RIDE (CL) (MG/L)	SULFATE (SO4) (MG/L)
CCT. 15...	--	--	--	14	1.7	--	--	--	34	0	12	15
ACV. 12...	5.3	--	--	11	1.6	8.1	1.4	--	28	0	12	15
CEC. 10...	6.0	21C	8C	10	1.7	6.4	1.1	--	22	0	9.7	12
JAN. 14...	6.4	20C	6C	13	1.8	7.6	1.2	--	30	0	11	16
FER. 11...	6.5	26C	7C	13	1.8	11	1.3	--	33	0	18	16
MAR. 11...	6.0	19C	C	11	1.9	8.8	1.2	--	27	0	15	13
APR. 15...	4.6	80	40	6.7	1.1	4.1	.8	.21	14	0	7.5	10
MAY 13...	4.4	110	C	8.0	1.1	3.6	.8	.00	18	0	5.4	8.6
JUNE 10...	4.1	26C	50	11	1.7	6.5	1.6	--	20	0	10	11
JULY 15...	.3	--	--	13	2.3	9.7	3.1	.42	32	0	14	16
AUG. 19...	.7	80	7C	14	2.1	10	1.6	.32	39	0	15	16
SEP. 16...	3.9	14C	5C	12	1.8	8.5	1.6	.33	34	0	10	13

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (N) (MG/L)	NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA, MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	METH-YLENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
CCT. 15...	--	.6	--	.96	--	.22	42	14	28	.03	--	--
ACV. 12...	.1	.4	--	1.1	--	.19	34	11	23	.04	89	73
CEC. 10...	.1	.4	--	1.3	--	.16	32	14	18	.06	71	63
JAN. 14...	.1	.5	--	1.1	--	.18	4C	16	25	.04	82	76
FEB. 11...	.1	.4	--	1.0	--	.19	40	13	27	.04	95	--
MAR. 11...	.1	.5	--	.78	--	.11	36	14	22	.05	98	--
APR. 15...	.1	.4	.006	.75	.54	.19	21	9	11	.04	54	44
MAY 13...	.0	.2	.062	--	--	.050	25	10	15	.01	54	42
JUNE 10...	.1	.3	--	.66	--	.093	34	18	16	.07	79	68
JULY 15...	.1	.3	.01C	1.5	1.1	.20	42	16	26	.09	--	77
AUG. 19...	.1	.2	.04C	1.0	.73	.17	44	12	32	.08	--	81
SEP. 16...	.2	.2	.02C	.78	.45	.14	37	9	28	.04	95	69

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	LOSS ON IGNITION (MG/L)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)	CHLOROPHYLL A (UG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	OIL AND GREASE (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)
OCT.										
15...	--	3	--	3.1	17	--	--	--	--	--
NOV.										
12...	16	6	20	1.5	16	4.3	--	--	--	--
DEC.										
10...	10	2	20	--	14	2.1	--	--	--	--
JAN.										
14...	11	7	20	.7	25	--	--	--	--	--
FEB.										
11...	3	3	13	.8	24	3.6	--	--	--	--
MAR.										
11...	9	5	8	.6	14	3.5	--	--	--	--
APR.										
15...	14	25	10	5.0	18	4.7	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	17	10	6	1.3	13	2.0	--	--	--	--
JUNE										
10...	30	2	6	7.9	15	3.2	--	--	--	--
JULY										
15...	--	3	--	32	29	6.3	--	--	--	--
AUG.										
19...	--	8	--	14	26	--	--	--	--	--
SEP.										
16...	19	8	22	4.0	15	2.2	3	.0	.01	0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

UNITS OF MEASUREMENT, GROSS ALPHA RADIATION, AS BOTH MICROGRAMS AND PICOCURIES OF URANIUM EQUIVALENT PER LITER OF WATER, GROSS BETA RADIATION AS BOTH STRONTIUM-90/YTTRIUM-90 AND CESIUM-137, IN PICOCURIES PER LITER OF WATER.

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FILTRABLE RESIDUE (MG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)
OCT., 1970										
15...	2.7	.9	3.6	4.6	84	<.4	<.1	1.0	1.1	6
NOV.										
12...	<.9	<.3	3.6	4.5	84	.4	.1	.9	.9	5
DEC.										
10...	<1.0	<.3	2.9	3.7	76	<.4	<.1	<.4	<.4	4
APR., 1971										
23...	.5	.2	2.5	3.2	51	1.7	.6	4.2	5.0	51
SEP.										
16...	--	--	--	--	--	--	--	--	--	11

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)
DEC., 1970									
10...	.00	.00	.00	.00	--	.00	.00	.00	.00
MAR., 1971									
11...	--	--	--	--	<.01	--	--	.00	--
JUNE									
10...	--	.00	.00	.00	.01	.00	.00	.00	--

MINOR ELEMENTS ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT., 1970							
09...	10	1	1	0	10	<.5	10
SEP., 1971							
16...	0	--	--	--	--	<.5	--

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	138	132	135	152	123	136	118	110	113	136	128	131
2	133	127	130	152	131	143	112	100	108	146	132	139
3	136	129	133	134	127	131	113	108	110	152	132	144
4	134	129	132	131	123	128	114	106	111	153	129	143
5	131	128	129	132	110	127	117	96	107	156	148	152
6	129	123	126	133	129	131	103	96	99	164	139	153
7	131	123	129	129	123	126	109	100	105	142	132	137
8	132	123	129	145	123	131	109	101	107	139	130	134
9	131	124	128	130	123	127	110	101	106	130	123	127
10	134	123	129	133	125	130	---	---	---	126	120	123
11	132	123	126	138	129	133	---	---	---	128	123	126
12	132	123	130	132	123	129	---	---	---	135	128	131
13	133	128	131	123	114	120	---	---	---	132	123	128
14	134	128	131	125	100	120	---	---	---	129	123	126
[illegible]	140	129	134	130	116	123	---	---	---	136	122	126
16	139	123	131	131	121	128	---	---	---	137	131	134
17	131	123	126	124	109	121	---	---	---	144	132	137
18	127	121	123	121	100	118	---	---	---	154	130	143
19	121	101	117	123	109	119	---	---	---	140	131	134
20	120	109	117	120	109	117	---	---	---	134	125	129
21	124	120	122	118	116	117	---	---	---	134	123	131
22	125	101	120	116	100	109	---	---	---	148	123	134
23	127	101	121	109	106	108	---	---	---	163	133	142
24	125	109	122	109	100	106	---	---	---	173	144	153
25	116	110	114	107	100	104	---	---	---	166	143	157
26	115	110	113	106	100	103	---	---	---	169	133	152
27	116	110	113	109	104	107	---	---	---	160	141	152
28	118	110	114	113	100	108	---	---	---	139	131	133
29	118	110	115	116	110	114	129	123	127	131	121	126
30	119	110	115	119	110	116	127	122	125	158	122	136
31	128	110	123	---	---	---	136	126	131	155	132	140
MONTH	140	101	124	152	100	121	---	---	---	173	120	137

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	137	123	131	125	110	119	119	110	116	72	68	70
2	130	121	126	121	110	115	119	110	115	72	70	71
3	129	121	126	123	109	120	116	90	104	72	70	71
4	130	123	128	144	121	128	88	81	84	72	63	67
5	152	123	132	143	127	138	81	79	80	64	63	64
6	202	144	172	---	---	---	85	79	82	---	---	---
7	188	159	170	---	---	---	105	82	91	---	---	---
8	198	163	177	149	139	144	101	90	93	---	---	---
9	217	162	181	142	132	138	98	92	95	---	---	---
10	160	138	145	136	130	133	98	87	94	---	---	---
11	140	128	133	136	123	131	86	79	82	---	---	---
12	143	123	133	149	134	140	81	75	78	---	---	---
13	181	135	145	135	130	133	77	70	73	---	---	---
14	177	113	145	140	109	133	70	62	65	---	---	---
15	180	121	141	144	132	139	74	67	70	---	---	---
16	126	104	118	137	133	136	76	73	74	---	---	---
17	125	93	115	132	115	123	76	73	75	---	---	---
18	143	87	124	115	110	112	80	77	78	---	---	---
19	136	129	132	118	110	115	78	70	74	---	---	---
20	147	128	133	135	118	127	68	58	62	---	---	---
21	143	129	135	134	120	126	62	60	61	---	---	---
22	134	130	133	121	109	117	65	62	64	---	---	---
23	139	128	135	123	118	121	68	65	66	---	---	---
24	150	139	145	125	122	124	67	65	66	---	---	---
25	147	141	145	127	123	125	66	65	66	---	---	---
26	140	132	138	128	121	124	69	65	67	110	103	108
27	157	135	142	128	123	125	74	70	72	109	100	106
28	149	123	134	136	123	130	73	72	72	107	100	103
29	---	---	---	135	123	130	75	71	73	107	100	105
30	---	---	---	129	123	126	71	68	69	106	102	104
31	---	---	---	124	113	119	---	---	---	113	101	110
MONTH	217	87	140	149	109	127	119	58	79	---	---	---

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	115	100	109	144	132	137	149	141	145	116	100	110
2	113	107	109	138	132	135	146	141	144	125	109	119
3	116	100	112	140	130	135	141	132	138	127	123	126
4	114	109	111	143	132	136	137	131	134	131	121	128
5	123	112	118	146	140	142	139	131	134	131	121	128
6	131	115	121	149	143	146	140	132	138	144	132	138
7	134	123	129	148	141	145	138	135	136	148	142	145
8	126	120	123	151	143	147	137	132	134	146	139	143
9	127	101	121	153	143	150	146	140	143	140	135	137
10	126	120	123	147	141	144	145	141	143	134	123	129
11	124	120	122	151	142	148	149	143	146	131	128	129
12	140	123	131	154	146	151	153	144	148	136	131	134
13	156	134	144	153	144	148	149	143	146	136	126	132
14	145	137	141	151	143	146	151	143	148	136	130	133
15	149	138	145	156	143	149	159	151	156	133	123	128
16	154	145	149	159	152	156	157	154	156	129	123	126
17	158	143	150	160	155	158	157	149	153	127	121	124
18	149	139	145	163	153	156	158	153	156	120	118	118
19	145	139	142	163	154	159	166	155	160	---	---	---
20	145	141	143	158	144	149	166	162	164	---	---	---
21	150	142	146	158	143	150	165	153	157	---	---	---
22	146	136	140	160	138	151	165	157	162	---	---	---
23	147	136	140	143	140	141	165	158	161	---	---	---
24	145	140	143	143	138	140	159	153	154	---	---	---
25	145	136	140	148	142	145	158	147	151	---	---	---
26	149	132	142	150	143	148	162	158	160	---	---	---
27	144	135	140	153	144	149	163	144	155	---	---	---
28	141	132	136	147	143	145	144	132	140	---	---	---
29	140	138	139	153	146	149	135	117	122	143	140	141
30	144	136	139	158	152	156	115	98	105	150	142	145
31	---	---	---	160	143	153	116	104	112	---	---	---
MONTH	158	100	133	163	130	147	166	98	145	---	---	---
YEAR	217	58	126									

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	6.8	6.6	6.7	7.0	7.0	7.0	7.1	6.9	7.0
2	---	---	---	6.7	6.5	6.6	7.0	6.8	6.9	7.0	6.8	6.9
3	---	---	---	6.8	6.6	6.7	6.9	6.8	6.9	6.9	6.8	6.9
4	---	---	---	6.8	6.7	6.7	6.9	6.7	6.8	7.0	6.8	6.9
5	---	---	---	6.7	6.5	6.6	7.0	6.9	6.9	7.0	6.9	6.9
6	---	---	---	6.7	6.5	6.6	7.0	7.0	7.0	7.0	6.9	6.9
7	---	---	---	6.7	6.6	6.6	7.0	6.9	6.9	7.0	6.9	7.0
8	---	---	---	6.7	6.4	6.6	7.0	6.9	6.9	7.0	7.0	7.0
9	---	---	---	6.6	6.5	6.5	7.0	6.9	7.0	7.0	7.0	7.0
10	---	---	---	6.6	6.5	6.5	---	---	---	7.0	6.9	7.0
11	---	---	---	6.6	6.4	6.5	---	---	---	7.0	6.9	7.0
12	---	---	---	6.6	6.5	6.6	---	---	---	7.0	6.8	6.9
13	---	---	---	6.6	6.6	6.6	---	---	---	7.0	6.9	6.9
14	---	---	---	6.7	6.6	6.7	---	---	---	6.9	6.9	6.9
15	---	---	---	6.7	6.6	6.6	---	---	---	6.9	6.9	6.9
16	---	---	---	6.7	6.6	6.7	---	---	---	6.9	6.8	6.9
17	---	---	---	6.8	6.7	6.8	---	---	---	6.9	6.8	6.8
18	---	---	---	7.0	6.8	6.9	---	---	---	6.8	6.7	6.8
19	---	---	---	7.0	6.9	7.0	---	---	---	6.8	6.7	6.8
20	---	---	---	7.0	7.0	7.0	---	---	---	7.0	6.8	6.9
21	---	---	---	7.0	6.9	7.0	---	---	---	6.9	6.9	6.9
22	---	---	---	7.0	7.0	7.0	---	---	---	6.9	6.8	6.9
23	---	---	---	7.0	7.0	7.0	---	---	---	6.9	6.8	6.8
24	---	---	---	7.1	7.0	7.1	---	---	---	6.9	6.7	6.8
25	---	---	---	7.2	7.1	7.2	---	---	---	6.9	6.6	6.8
26	---	---	---	7.2	7.1	7.2	---	---	---	6.9	6.9	6.9
27	---	---	---	7.2	7.0	7.1	---	---	---	6.9	6.8	6.9
28	7.1	6.9	6.9	7.1	7.0	7.0	---	---	---	6.9	6.9	6.9
29	7.0	6.8	6.9	7.0	6.9	6.9	7.0	6.9	7.0	6.9	6.8	6.9
30	7.0	6.9	6.9	---	---	---	7.0	7.0	7.0	6.9	6.8	6.8
31	6.9	6.8	6.8	---	---	---	7.0	6.9	7.0	6.8	6.8	6.8
MONTH	---	---	---	7.2	6.4	6.8	---	---	---	7.1	6.6	6.9

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.8	6.9	6.9	6.9	7.0	6.9	6.9	7.5	7.3	7.5
2	6.8	6.7	6.8	7.0	6.9	6.9	6.9	6.8	6.9	7.5	7.5	7.5
3	6.8	6.7	6.7	7.1	6.9	7.0	6.9	6.8	6.8	7.5	7.5	7.5
4	6.8	6.7	6.7	7.1	7.0	7.0	6.9	6.8	6.8	7.6	7.5	7.5
5	6.8	6.9	6.8	7.1	7.0	7.0	6.9	6.8	6.9	7.6	7.5	7.5
6	6.9	6.8	6.9	---	---	---	6.9	6.9	6.9	---	---	---
7	6.9	6.7	6.8	---	---	---	6.9	6.9	6.9	---	---	---
8	6.8	6.7	6.8	7.1	7.0	7.0	6.9	6.9	6.9	---	---	---
9	6.9	6.8	6.8	7.1	7.0	7.0	7.0	6.8	7.0	---	---	---
10	6.8	6.8	6.8	7.1	7.0	7.0	7.0	6.9	6.9	---	---	---
11	6.8	6.8	6.8	7.0	7.0	7.0	6.9	6.9	6.9	---	---	---
12	7.0	6.8	6.9	7.0	7.0	7.0	6.9	6.8	6.9	---	---	---
13	7.0	6.9	6.9	7.0	6.9	7.0	6.8	6.7	6.8	---	---	---
14	7.3	7.0	7.2	7.0	6.9	6.9	6.8	6.7	6.7	---	---	---
15	7.2	7.1	7.1	7.0	6.9	6.9	6.8	6.8	6.8	---	---	---
16	7.1	7.0	7.1	7.4	6.9	7.1	6.9	6.8	6.8	---	---	---
17	7.1	7.0	7.0	7.4	6.9	7.0	6.9	6.8	6.8	---	---	---
18	7.0	6.8	6.9	7.0	6.9	6.9	6.9	6.8	6.8	---	---	---
19	6.9	6.8	6.8	7.0	6.9	6.9	6.9	6.8	6.9	---	---	---
20	6.9	6.8	6.9	7.0	6.9	6.9	6.9	6.8	6.8	---	---	---
21	6.9	6.8	6.9	7.0	6.8	6.9	6.9	6.8	6.9	---	---	---
22	6.9	6.8	6.8	7.2	7.0	7.0	6.9	6.9	6.9	---	---	---
23	7.0	6.8	6.9	7.1	6.9	7.0	7.0	6.7	6.9	---	---	---
24	7.0	7.0	7.0	7.0	6.9	6.9	6.7	6.6	6.7	---	---	---
25	7.0	6.9	7.0	7.0	6.9	6.9	6.7	6.6	6.6	---	---	---
26	6.9	6.9	6.9	7.0	6.9	6.9	6.7	6.6	6.7	7.4	6.9	7.1
27	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.7	6.7	7.4	7.2	7.2
28	6.9	6.9	6.9	6.9	6.8	6.9	6.8	6.7	6.8	7.2	7.0	7.1
29	---	---	---	6.9	6.8	6.9	7.3	6.9	7.0	7.1	7.0	7.1
30	---	---	---	7.0	6.9	6.9	7.5	7.3	7.4	7.1	7.1	7.1
31	---	---	---	7.0	6.9	7.0	---	---	---	7.1	6.9	7.0
MONTH	7.3	6.7	6.9	7.4	6.8	7.0	7.5	6.6	6.9	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.8	7.0	---	---	---	6.7	6.5	6.6	8.0	7.0	7.4
2	6.8	6.6	6.7	---	---	---	6.8	6.4	6.6	7.9	6.9	7.2
3	6.6	6.5	6.6	---	---	---	7.0	6.4	6.6	8.6	7.0	7.5
4	6.7	6.5	6.6	---	---	---	6.6	6.3	6.5	8.2	7.0	7.4
5	6.7	6.5	6.6	---	---	---	7.0	6.5	6.8	8.3	7.0	7.3
6	7.6	6.6	6.8	---	---	---	7.0	6.7	6.8	7.4	6.9	7.1
7	6.9	6.7	6.8	---	---	---	7.1	6.5	6.8	7.0	6.8	6.9
8	7.0	6.8	6.9	---	---	---	8.0	6.6	7.1	7.3	6.9	7.1
9	7.0	6.8	6.9	---	---	---	7.1	6.5	6.7	7.1	6.9	7.0
10	6.8	6.6	6.7	---	---	---	7.0	6.3	6.6	7.1	6.8	6.9
11	6.7	6.5	6.6	---	---	---	6.8	6.3	6.5	7.0	6.8	6.9
12	6.7	6.6	6.6	---	---	---	6.9	6.7	6.8	6.9	6.7	6.8
13	---	---	---	---	---	---	7.1	6.6	6.8	6.9	6.6	6.8
14	---	---	---	---	---	---	7.7	6.6	6.9	7.1	6.8	6.9
15	---	---	---	---	---	---	7.6	6.7	6.9	6.9	6.8	6.9
16	7.7	7.1	7.4	7.9	6.9	7.4	6.8	6.7	6.7	7.0	6.9	6.9
17	7.3	6.9	7.0	8.0	6.7	7.1	7.1	6.7	6.9	7.2	6.8	7.0
18	7.3	6.8	7.2	7.0	6.5	6.7	7.1	6.7	6.9	7.0	6.8	6.9
19	7.1	7.1	7.1	6.9	6.5	6.7	6.8	6.5	6.6	---	---	---
20	7.3	7.0	7.2	6.8	6.4	6.6	6.6	6.5	6.6	---	---	---
21	7.2	7.1	7.2	8.1	6.6	7.0	6.6	6.5	6.5	---	---	---
22	7.3	7.1	7.2	8.7	6.6	7.3	6.9	6.5	6.6	---	---	---
23	7.4	7.1	7.3	8.5	6.7	7.3	6.8	6.5	6.7	---	---	---
24	7.3	7.2	7.3	8.6	6.8	7.3	6.8	6.5	6.6	---	---	---
25	7.2	7.1	7.2	8.0	6.8	7.1	7.1	6.7	6.8	---	---	---
26	---	---	---	7.2	6.7	6.9	7.0	6.7	6.9	---	---	---
27	---	---	---	7.1	6.5	6.8	6.9	6.8	6.8	---	---	---
28	---	---	---	8.0	6.7	7.1	7.1	6.7	6.9	---	---	---
29	---	---	---	7.6	6.8	7.0	7.1	6.9	7.0	---	---	---
30	---	---	---	6.8	6.6	6.7	7.1	6.9	7.0	---	---	---
31	---	---	---	6.8	6.4	6.6	7.4	7.1	7.2	---	---	---
MONTH	---	---	---	---	---	---	8.0	6.3	6.8	---	---	---
YEAR	8.7	6.3	6.9									

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	5.1	6.2	7.3	5.2	6.2	10.8	9.0	10.0	11.7	11.1	11.4
2	7.8	6.1	6.8	6.1	4.9	5.6	10.8	10.5	10.6	11.4	10.8	11.1
3	8.0	6.3	7.1	7.0	5.0	6.3	10.8	10.2	10.5	11.4	10.8	11.1
4	8.4	6.8	7.6	7.3	6.0	6.7	10.7	10.2	10.4	12.4	10.8	11.3
5	8.0	6.2	6.9	7.1	5.1	6.5	11.7	10.4	11.0	11.7	11.2	11.4
6	7.6	6.0	6.8	7.6	5.6	6.9	11.9	11.7	11.8	11.8	11.0	11.5
7	8.0	6.7	7.2	8.1	6.6	7.6	12.4	11.6	11.9	13.1	11.1	11.7
8	7.2	6.1	6.6	8.1	6.0	7.2	12.3	11.9	12.1	11.6	11.2	11.4
9	7.1	6.4	6.7	7.3	6.2	6.9	12.4	12.1	12.3	13.0	11.2	11.5
10	6.9	6.0	6.5	7.1	6.0	6.7	---	---	---	12.0	11.2	11.5
11	6.4	5.1	5.9	6.4	4.7	5.6	---	---	---	11.6	11.1	11.4
12	5.5	4.6	5.0	7.1	5.5	6.3	---	---	---	11.7	11.0	11.4
13	5.6	4.2	4.9	7.7	6.2	7.1	---	---	---	11.6	11.3	11.4
14	6.3	5.1	5.7	8.0	7.4	7.7	---	---	---	11.7	11.1	11.4
15	5.7	5.0	5.3	7.6	7.1	7.4	---	---	---	11.7	11.2	11.4
16	5.9	4.8	5.4	8.0	7.0	7.6	---	---	---	11.7	11.2	11.4
17	6.7	5.5	6.2	8.6	7.8	8.2	---	---	---	11.7	11.1	11.5
18	7.6	6.8	7.2	9.2	8.5	8.8	---	---	---	12.1	10.7	11.4
19	8.1	7.3	7.6	9.1	8.5	8.9	---	---	---	11.9	11.2	11.5
20	8.1	7.5	7.8	9.4	9.1	9.2	---	---	---	11.6	10.9	11.4
21	8.3	7.7	8.0	9.3	8.8	9.1	---	---	---	11.6	11.1	11.4
22	8.0	7.6	7.8	9.9	9.4	9.6	---	---	---	12.2	10.8	11.2
23	7.8	7.3	7.5	9.9	9.6	9.8	---	---	---	11.3	10.8	11.1
24	7.4	7.1	7.3	10.7	10.0	10.3	---	---	---	11.5	10.7	11.2
25	7.3	6.9	7.2	11.3	10.8	11.1	---	---	---	11.3	10.0	10.6
26	7.4	6.8	7.1	11.6	11.3	11.5	---	---	---	11.4	10.8	11.1
27	7.7	7.2	7.4	11.6	11.4	11.5	---	---	---	11.1	10.7	11.0
28	7.7	6.8	7.4	11.4	10.8	11.1	---	---	---	12.1	11.2	11.5
29	8.0	6.6	7.4	11.1	10.8	10.9	11.7	11.2	11.4	11.6	10.8	11.3
30	8.1	7.2	7.7	10.8	9.3	9.7	12.9	11.3	11.5	11.6	10.7	11.0
31	7.8	6.6	7.3	---	---	---	11.7	11.1	11.4	11.8	10.7	11.1
MONTH	8.4	4.2	6.8	11.6	4.7	8.3	---	---	---	13.1	10.0	11.3

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.8	10.8	11.2	13.1	12.3	12.7	12.0	11.5	11.8	12.0	11.6	11.8
2	11.6	11.0	11.3	13.2	12.6	13.0	11.9	11.4	11.7	11.7	11.4	11.5
3	11.4	10.7	11.1	13.1	12.7	12.9	12.1	11.1	11.6	11.4	11.3	11.4
4	11.5	10.5	11.0	13.1	12.5	12.9	12.7	12.0	12.5	11.7	11.2	11.5
5	11.1	10.3	10.7	13.1	12.9	13.0	13.1	12.5	12.8	11.9	11.7	11.8
6	11.1	10.5	10.8	---	---	---	13.7	12.9	13.3	---	---	---
7	11.1	10.0	10.7	---	---	---	13.1	12.9	13.0	---	---	---
8	11.0	10.2	10.7	12.7	12.2	12.5	13.2	12.8	13.0	---	---	---
9	11.3	10.5	10.8	12.7	12.4	12.5	13.0	12.1	12.7	---	---	---
10	11.0	10.6	10.8	12.7	12.0	12.3	12.1	11.9	12.0	---	---	---
11	11.2	10.8	10.9	12.3	12.0	12.2	12.6	12.1	12.4	---	---	---
12	11.1	10.7	10.9	12.0	11.8	11.9	12.5	12.1	12.3	---	---	---
13	11.0	10.2	10.7	11.7	11.4	11.5	12.2	12.0	12.1	---	---	---
14	15.2	11.1	14.0	12.0	11.3	11.5	12.6	11.9	12.2	---	---	---
15	15.6	14.7	15.0	12.2	11.9	12.1	13.3	12.5	13.0	---	---	---
16	15.7	14.6	15.0	12.4	11.9	12.1	13.2	12.8	13.0	---	---	---
17	15.9	15.4	15.7	12.5	12.0	12.2	13.0	12.7	12.9	---	---	---
18	15.8	11.6	13.8	12.8	12.4	12.7	12.6	12.4	12.5	---	---	---
19	11.9	11.4	11.7	12.7	12.5	12.6	12.5	11.8	12.2	---	---	---
20	11.7	11.4	11.6	12.8	12.5	12.6	12.0	11.8	11.9	---	---	---
21	11.9	11.3	11.6	12.6	12.0	12.5	12.1	11.9	12.0	---	---	---
22	12.0	11.3	11.6	12.8	12.4	12.5	12.3	12.0	12.2	---	---	---
23	12.0	11.7	11.9	12.8	12.5	12.7	12.3	12.0	12.2	---	---	---
24	12.0	11.5	11.7	12.9	12.0	12.5	12.2	11.1	11.9	---	---	---
25	12.0	11.7	11.8	12.9	12.4	12.6	12.2	12.0	12.1	---	---	---
26	11.9	11.6	11.7	12.4	12.0	12.2	12.6	12.0	12.3	8.0	7.7	7.9
27	12.1	11.7	11.8	12.3	12.0	12.1	12.3	12.0	12.2	8.3	7.9	8.1
28	12.5	12.1	12.3	12.1	11.6	11.8	12.2	12.0	12.1	8.7	8.1	8.5
29	---	---	---	11.8	11.3	11.5	12.0	11.7	11.9	8.8	8.4	8.6
30	---	---	---	11.8	11.3	11.5	12.0	11.7	11.9	8.8	8.5	8.6
31	---	---	---	12.1	11.3	11.7	---	---	---	8.6	8.1	8.4
MONTH	15.9	10.0	11.9	13.2	11.3	12.3	13.7	11.1	12.3	---	---	---

CONNECTICUT RIVER BASIN

01184000 CONNECTIICUT RIVER AT THOMPSONVILLE, CONN.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	8.2	8.4	8.6	5.5	6.6	4.6	3.1	3.8	---	---	---
2	8.4	7.7	8.0	7.9	4.4	6.2	6.0	3.3	4.7	---	---	---
3	7.9	7.3	7.5	9.0	6.1	7.7	7.0	3.6	4.9	---	---	---
4	7.9	7.4	7.6	11.6	7.0	9.1	5.5	3.6	4.4	---	---	---
5	7.7	7.2	7.5	13.0	8.1	10.4	6.6	3.5	5.2	---	---	---
6	8.2	6.3	7.5	13.3	8.6	10.6	7.3	5.1	6.1	---	---	---
7	8.1	7.2	7.6	10.6	6.9	9.0	7.5	4.7	6.2	---	---	---
8	8.5	7.2	7.8	10.9	5.7	8.1	9.0	5.5	7.4	6.2	3.7	4.4
9	8.0	6.7	7.4	7.9	3.2	5.8	9.0	5.7	5.8	5.4	4.3	4.7
10	7.7	6.8	7.3	8.8	3.0	5.7	7.1	4.5	5.4	7.5	5.8	6.5
11	8.3	7.2	7.8	7.7	5.1	6.4	---	---	---	7.5	6.7	7.1
12	8.2	7.2	7.6	9.4	3.1	6.2	5.9	2.7	4.0	7.1	4.8	6.1
13	7.9	6.0	7.2	8.8	4.4	6.7	5.9	3.4	4.9	5.3	4.5	4.9
14	8.2	5.9	7.1	8.4	5.0	6.5	6.6	5.6	6.2	5.5	5.0	5.2
15	8.9	6.6	7.8	8.9	4.2	6.7	6.4	6.0	6.2	5.5	5.1	5.3
16	9.2	7.2	8.2	9.0	4.5	6.9	6.2	5.8	6.1	5.6	5.2	5.5
17	9.6	6.5	8.0	9.3	4.7	6.7	6.3	5.5	5.9	5.8	5.6	5.7
18	9.2	5.8	7.2	7.9	3.9	5.6	6.3	1.9	5.1	5.7	5.6	5.7
19	8.3	5.8	7.1	7.3	3.9	6.0	1.7	1.1	1.2	---	---	---
20	9.7	5.8	7.8	6.9	3.3	5.2	1.2	1.0	1.1	---	---	---
21	9.1	6.1	7.5	10.0	5.3	7.5	1.5	1.1	1.3	---	---	---
22	8.4	5.6	6.9	11.3	6.3	8.6	2.1	1.3	1.6	---	---	---
23	8.3	6.0	7.0	10.7	5.5	8.0	1.8	1.5	1.7	---	---	---
24	8.9	5.7	7.0	10.2	5.1	7.6	2.4	1.8	2.1	---	---	---
25	8.5	4.8	6.7	9.5	5.1	6.8	2.8	2.3	2.5	---	---	---
26	8.5	5.3	6.8	7.8	4.2	5.7	3.3	2.5	2.7	---	---	---
27	9.2	5.2	7.6	5.8	1.7	3.8	---	---	---	---	---	---
28	11.0	7.3	8.8	7.9	3.0	5.3	---	---	---	---	---	---
29	9.4	6.3	7.8	7.0	3.7	5.2	---	---	---	5.4	5.1	5.2
30	9.5	4.6	7.7	4.4	3.0	3.8	---	---	---	5.2	5.1	5.1
31	---	---	---	4.8	1.3	3.1	---	---	---	---	---	---
MONTH	11.0	4.6	7.5	13.3	1.3	6.7	9.0	1.0	4.3	---	---	---
YEAR	15.9	1.0	9.1									

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.0	18.5	12.0	10.0	10.5	6.5	6.0	6.0	0.5	0	0.5
2	18.5	17.5	18.0	11.0	10.0	10.5	7.0	6.0	6.5	1.0	0	0.5
3	18.5	18.0	18.0	12.0	10.0	11.0	6.5	5.5	6.0	1.0	0	0.5
4	18.0	16.5	17.5	11.5	11.0	11.0	7.0	6.0	6.5	1.5	0	0.5
5	18.0	16.0	17.0	11.0	10.0	10.5	6.0	4.0	5.0	1.5	1.0	1.0
6	17.5	16.5	16.5	11.0	9.5	10.5	4.0	3.0	3.5	1.5	0.5	1.0
7	17.5	16.5	17.0	11.0	9.5	10.0	3.5	3.0	3.0	1.5	0.5	1.0
8	17.5	17.0	17.0	11.5	9.0	10.0	2.5	2.0	2.5	1.0	0	1.0
9	17.5	17.0	17.5	10.0	8.5	9.5	3.5	1.5	2.5	1.0	0.5	0.5
10	18.5	17.0	17.5	10.0	9.0	9.5	---	---	---	1.0	0	0.5
11	18.5	18.0	18.0	10.5	10.0	10.0	---	---	---	1.5	0.5	1.0
12	18.5	18.0	18.0	11.0	10.0	10.5	---	---	---	2.0	1.0	1.5
13	18.5	18.0	18.5	10.0	9.5	9.5	---	---	---	1.5	0.5	1.0
14	19.0	18.0	18.5	10.5	9.5	10.0	---	---	---	1.0	1.0	1.0
15	19.0	18.5	18.5	10.0	9.5	10.0	---	---	---	1.5	0.5	1.0
16	18.5	17.0	18.0	9.5	9.0	9.5	---	---	---	1.5	0.5	1.0
17	17.0	15.0	16.0	9.5	8.5	9.0	---	---	---	1.0	0.5	1.0
18	15.0	14.0	14.5	9.0	8.0	9.5	---	---	---	1.0	0.5	1.0
19	14.5	13.5	14.0	8.5	8.0	8.5	---	---	---	1.0	0.5	1.0
20	14.0	12.5	13.0	10.0	8.5	9.0	---	---	---	1.0	0.5	1.0
21	13.0	12.5	13.0	10.0	8.5	9.0	---	---	---	1.0	0.5	0.5
22	13.5	13.0	13.0	8.5	8.0	8.0	---	---	---	1.5	0.5	1.0
23	14.0	13.5	13.5	8.5	8.0	8.5	---	---	---	1.0	0.5	1.0
24	15.0	13.5	14.0	8.0	6.5	7.0	---	---	---	1.0	0.5	1.0
25	14.5	13.5	14.0	6.5	5.0	5.5	---	---	---	1.5	1.0	1.0
26	13.5	13.0	13.5	5.5	4.5	5.0	---	---	---	1.5	1.0	1.0
27	13.5	12.5	13.0	5.0	5.0	5.0	---	---	---	1.0	0.5	0.5
28	12.5	11.0	12.0	6.0	5.0	5.5	---	---	---	1.0	0.5	1.0
29	12.0	10.5	11.5	5.5	5.0	5.5	1.0	0.5	1.0	1.0	0.5	1.0
30	12.0	10.5	11.0	6.5	5.5	6.0	1.0	0.5	0.5	1.5	0.5	1.0
31	11.5	10.0	10.5	---	---	---	1.0	0	0.5	1.5	0.5	1.0
MONTH	19.0	10.0	15.5	12.0	4.5	9.0	---	---	---	2.0	0	1.0

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.5	1.0	3.0	2.0	2.5	5.5	4.5	5.0	8.0	6.0	7.0
2	1.0	0.5	1.0	2.5	1.5	2.0	7.0	5.5	6.0	8.5	7.0	7.5
3	1.0	0.5	1.0	2.0	1.0	2.0	7.5	5.5	7.0	8.0	7.5	8.0
4	1.5	0.5	1.0	1.0	0	0.5	5.5	4.5	5.0	8.0	7.5	7.5
5	1.0	0.5	1.0	1.0	0.5	1.0	4.5	3.5	4.0	7.0	6.5	7.0
6	1.5	1.0	1.5	---	---	---	4.0	3.5	3.5	---	---	---
7	2.0	0.5	1.0	---	---	---	3.5	3.0	3.5	---	---	---
8	1.5	0.5	1.0	2.0	1.5	2.0	4.5	3.0	4.0	---	---	---
9	1.5	1.0	1.5	2.5	1.0	2.0	6.0	4.0	5.0	---	---	---
10	1.5	0.5	1.0	2.5	1.0	2.0	6.5	5.5	6.0	---	---	---
11	1.5	0.5	1.0	2.0	1.0	1.5	6.5	5.0	6.0	---	---	---
12	2.0	1.0	1.5	3.0	1.0	2.0	7.0	6.0	6.5	---	---	---
13	2.0	1.5	2.0	2.5	1.5	2.0	6.5	6.0	6.5	---	---	---
14	3.5	2.0	2.5	2.0	1.0	1.5	6.5	5.5	6.0	---	---	---
15	2.5	1.5	2.0	3.5	1.5	2.5	5.0	4.5	5.0	---	---	---
16	3.5	1.5	2.5	6.0	2.5	4.5	5.0	4.5	4.5	---	---	---
17	3.0	1.5	2.0	5.0	3.0	4.0	5.5	4.0	4.5	---	---	---
18	3.5	2.0	2.5	3.5	1.5	2.5	6.0	5.0	5.5	---	---	---
19	2.5	2.0	2.5	2.5	2.0	2.0	7.5	5.0	6.5	---	---	---
20	2.0	0.5	1.5	2.0	1.0	1.5	8.0	7.5	8.0	---	---	---
21	1.5	1.0	1.5	2.5	1.0	2.0	7.5	7.0	7.5	---	---	---
22	2.5	0.5	2.0	4.0	1.5	3.0	7.5	6.5	7.0	---	---	---
23	2.0	1.5	2.0	5.0	3.0	4.0	7.0	6.5	7.0	---	---	---
24	2.0	1.5	1.5	4.5	3.0	3.5	7.5	6.5	7.0	---	---	---
25	3.5	1.5	2.5	4.0	1.5	3.0	7.0	6.5	6.5	---	---	---
26	4.0	2.0	3.0	4.0	2.0	3.0	7.0	6.0	6.5	17.5	17.0	17.0
27	3.0	2.5	2.5	5.0	2.5	4.0	8.0	6.5	7.0	17.0	16.0	16.0
28	3.0	1.5	2.5	6.0	3.0	4.5	7.5	7.0	7.5	16.5	15.0	16.0
29	---	---	---	6.5	4.5	5.5	7.0	7.0	7.0	17.0	15.0	16.0
30	---	---	---	6.5	5.0	6.0	7.0	6.0	6.5	16.0	15.5	15.5
31	---	---	---	6.0	5.5	5.5	---	---	---	16.0	15.5	16.0
MONTH	4.0	0.5	1.5	6.5	0	3.0	8.0	3.0	6.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.0	16.0	27.5	26.0	26.5	27.0	26.0	26.5	23.0	21.5	22.5
2	17.5	16.0	17.0	26.5	26.0	26.0	27.0	26.0	26.5	23.0	21.5	22.5
3	18.0	16.5	17.5	26.5	25.0	25.5	27.0	25.5	26.0	23.5	21.5	22.5
4	19.0	17.5	18.0	27.5	25.0	26.0	26.5	25.0	26.0	24.0	22.5	23.0
5	20.0	18.0	19.0	28.0	24.5	26.0	26.0	24.5	25.5	25.5	23.0	24.0
6	20.5	18.5	19.5	27.5	24.5	26.0	26.0	24.5	25.0	25.0	23.5	24.5
7	21.5	18.5	20.5	27.0	25.5	26.5	26.0	24.5	25.5	24.0	23.0	23.5
8	23.0	21.0	22.0	28.0	26.0	27.0	27.5	25.0	26.5	25.0	23.0	24.0
9	23.0	21.5	22.5	28.0	26.5	27.5	27.5	26.0	26.5	25.5	24.0	24.5
10	23.0	20.5	22.0	28.0	26.5	27.0	28.0	26.5	27.0	25.5	24.0	24.5
11	22.5	21.0	22.0	27.0	25.5	26.5	27.5	26.5	27.0	24.5	23.5	24.0
12	22.5	21.0	22.0	27.0	25.0	26.0	27.5	25.5	26.5	25.0	24.0	24.5
13	23.0	21.5	22.0	26.0	24.0	25.0	27.0	25.0	26.5	24.5	24.0	24.0
14	22.5	21.5	22.0	26.5	24.0	25.5	28.5	25.0	26.5	24.5	23.5	24.0
15	23.0	21.0	22.0	26.0	25.0	25.5	27.5	25.5	26.5	24.5	23.5	24.0
16	23.5	21.0	22.0	26.5	25.0	25.5	27.0	24.5	26.0	24.5	23.5	24.0
17	24.5	20.5	22.5	26.0	25.0	25.5	27.0	24.5	25.5	24.5	23.0	24.0
18	24.5	21.5	23.0	26.0	24.5	25.0	27.5	25.0	26.5	23.5	23.0	23.0
19	25.0	23.0	24.0	24.5	24.0	24.5	27.5	26.0	26.5	---	---	---
20	26.0	23.5	24.5	25.5	23.5	24.5	27.5	26.5	27.0	---	---	---
21	26.0	23.5	25.0	26.0	24.0	25.0	28.0	26.0	27.0	---	---	---
22	26.5	24.5	25.5	26.5	24.0	25.0	29.0	25.5	27.0	---	---	---
23	27.5	25.0	26.0	27.0	25.0	26.0	27.0	25.5	26.0	---	---	---
24	27.5	25.5	26.5	27.0	25.0	26.0	25.5	24.0	24.5	---	---	---
25	27.0	25.5	26.5	28.0	25.5	27.0	25.5	23.5	24.5	---	---	---
26	27.5	25.5	26.5	27.0	26.0	26.5	24.0	23.5	24.0	---	---	---
27	27.0	25.5	26.0	27.5	26.0	27.0	24.0	23.0	23.5	---	---	---
28	27.5	25.5	26.0	28.0	25.5	27.0	22.5	21.5	22.0	---	---	---
29	25.5	25.0	25.0	28.0	25.5	27.0	22.5	21.0	22.0	20.0	19.5	20.0
30	26.0	24.5	25.0	27.0	26.0	26.5	22.5	21.0	22.0	21.0	19.5	20.0
31	---	---	---	27.0	26.0	26.5	23.0	21.5	22.0	---	---	---
MONTH	27.5	15.0	22.5	28.0	23.5	26.0	29.0	21.0	25.5	---	---	---
YEAR	29.0	0	12.5									

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°44'28", long 73°12'47", Berkshire County, multiple-parameter monitor on right bank 0.3 mile upstream from Massachusetts-Vermont State line, 2 miles northwest of Williamstown, and 3.9 miles downstream from gaging station on Hoosic River near Williamstown.

DRAINAGE AREA.--203 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1968 to September 1971.
Water temperatures: November 1968 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 525 micromhos Feb. 7; minimum, 68 micromhos Apr. 20.
pH: Maximum, 9.9 Dec. 24; minimum, 6.4 Oct. 15.
Dissolved oxygen: Maximum, 16.5 mg/l Feb. 15; minimum, 0.4 mg/l Oct. 14.
Water temperatures: Maximum, 24.5°C July 24, 26, Aug. 9; minimum, freezing point Dec. 8, Jan. 21.

Period of record:
Specific conductance: Maximum, 560 micromhos Aug. 20, 1970; minimum, 66 micromhos Apr. 16, 1970.
pH: Maximum, 9.9 Dec. 24, 1970; minimum, 5.8 July 5, 1970.
Dissolved oxygen: Maximum, 16.5 mg/l Feb. 15, 1971; minimum, 0.0 mg/l July 24, 25, 27, 28, 1970.
Water temperatures: Maximum, 26.5°C July 27, 1970; minimum, freezing point on several days in water years 1970-71.

REMARKS.--Figures of daily discharge (computed on basis of records for gaging station near Williamstown and for Green River near Williamstown) are available in district office. Recorder not in operation Aug. 21 to Sept. 30. Additional chemical analyses for this station in radiochemical and pesticide tables and in table of composited samples.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.								
07...	0800	108	245	6.6	7.8	12.3	16.0	210000
NOV.								
03...	1600	111	285	6.9	8.5	10.5	11.9	180000
DEC.								
08...	1330	199	230	12.2	8.3	.7	-9.0	210000
JAN.								
06...	1600	202	217	12.3	8.2	1.2	-1.5	260000
FEB.								
09...	0900	251	340	10.4	9.0	.6	8.1	240000
MAR.								
03...	1500	319	247	12.0	7.8	2.5	.0	260000
APR.								
06...	1600	750	173	11.9	7.6	5.2	8.8	60000
MAY								
05...	1300	1340	96	10.7	7.4	9.3	18.8	31000
JUNE								
09...	1530	180	280	6.8	8.1	19.4	21.4	220000
JULY								
14...	1100	71	293	8.1	7.8	20.1	26.2	20000
AUG.								
11...	1200	229	375	4.1	7.8	23.1	25.0	280000
SEP.								
15...	1600	360	184	7.2	7.2	20.4	21.6	100000

DATE	FECAL COLIFORM (COL. PER 100 ML)	NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLOROPHYLL A (UG/L)	TURBIDITY (JTU)
OCT.								
07...	33000	.3	1.3	.28	.04	8	2.6	3
NOV.								
03...	28000	.3	1.3	.46	.37	18	1.4	1
DEC.								
08...	31000	.6	1.7	1.0	.06	42	12	9
JAN.								
06...	27000	.8	.96	.41	.06	15	1.7	20
FEB.								
09...	67000	1.1	1.8	.88	.07	30	3.3	1
MAR.								
03...	14000	.3	1.2	.29	.08	12	.7	6
APR.								
06...	8600	.4	.76	.17	.06	12	.7	15
MAY								
05...	3200	.5	.70	.12	.03	9	1.5	10
JUNE								
09...	15000	.5	.62	.25	.10	31	--	25
JULY								
14...	500	1.0	1.2	.32	.07	18	3.6	7
AUG.								
11...	6700	.4	2.2	.34	.20	19	2.3	4
SEP.								
15...	21000	.4	2.0	1.6	.08	41	3.8	55

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JULY. 1971 14...	71	--	--	--	97	--	--	--	.77	--	--	--
SEP. 15...	360	128	105	20	60	7	6.5	.00	1.4	2.3	1.0	1

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	NITRITE (N) (MG/L)
JULY. 1971 14...	71	--	--	40	--	--	--	.44	118	--	--	.080
AUG. 11...	225	--	--	--	--	--	--	.98	--	--	--	.11
SEP. 15...	360	4.2	90	20	5.2	7.8	1.5	.56	73	16	9.0	.030

DATE	DISSOLVED FLUORIDE (F) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	COLOR (PLATINUM COBALT UNITS)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)
SEP.. 1971 15...	.1	71	11	13	0	<.5

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	271	203	232	234	211	219	201	138	153	316	231	254
2	292	213	251	291	224	245	240	156	191	234	225	229
3	270	155	221	319	232	274	254	196	227	235	220	227
4	158	141	153	356	239	279	256	115	165	266	220	236
5	215	161	185	312	241	277	138	113	123	315	251	271
6	258	189	228	320	272	297	154	131	140	241	198	213
7	305	220	264	269	230	244	211	139	157	298	211	249
8	309	247	275	269	198	224	234	179	204	277	237	247
9	366	277	320	307	257	279	249	199	212	253	224	240
10	405	279	308	360	279	312	300	220	250	221	204	212
11	304	267	283	354	228	266	280	210	236	238	206	219
12	372	269	312	333	236	272	254	200	219	286	229	248
13	427	295	347	339	250	294	213	202	207	309	248	270
14	435	310	359	363	247	280	256	202	219	280	239	255
15	424	202	288	253	163	208	295	228	258	283	230	243
16	227	189	203	188	155	171	338	232	288	254	215	243
17	265	187	208	230	186	207	293	222	251	239	227	233
18	214	133	194	252	188	219	299	217	240	264	214	230
19	250	174	210	265	205	231	271	220	231	274	221	245
20	289	188	244	230	161	190	245	206	223	256	230	240
21	322	196	264	205	133	161	261	202	221	273	231	252
22	334	180	241	141	128	134	303	232	268	274	245	254
23	237	153	175	156	120	140	278	226	250	273	234	254
24	190	151	163	181	151	164	300	223	249	260	227	238
25	166	149	158	229	145	183	290	203	223	395	228	266
26	205	147	167	240	144	173	216	203	207	374	282	319
27	229	160	191	158	143	151	216	205	210	335	279	295
28	251	171	210	164	143	151	293	206	229	293	263	279
29	247	185	217	148	135	140	292	233	260	289	244	265
30	254	200	230	158	134	141	297	237	266	284	251	259
31	270	203	226	---	---	---	327	244	271	266	230	238
MONTH	435	133	236	363	120	218	338	113	221	395	198	249

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

SPECIFIC CONDU.TANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	288	227	245	---	---	---	291	245	266	---	---	---
2	294	240	268	---	---	---	287	245	265	---	---	---
3	314	223	276	243	234	237	312	288	302	---	---	---
4	307	247	270	272	228	247	324	309	318	---	---	---
5	308	244	267	257	227	241	327	171	270	---	---	---
6	482	232	288	265	226	238	203	173	189	93	87	90
7	525	207	290	252	223	236	233	172	198	100	74	90
8	243	194	216	281	234	248	201	185	191	95	74	87
9	409	232	316	295	239	256	196	168	185	84	77	82
10	384	223	278	279	242	255	164	142	150	101	82	91
11	273	205	241	288	247	265	150	131	145	109	88	98
12	374	265	285	310	259	277	138	110	129	116	97	107
13	419	354	386	303	233	263	123	89	110	125	83	90
14	404	210	287	299	238	267	101	86	94	112	92	103
15	214	199	205	292	190	257	121	101	109	122	107	114
16	260	205	225	203	185	198	126	111	118	122	114	118
17	289	204	258	197	181	191	130	119	123	141	121	132
18	439	231	317	224	205	215	121	112	118	156	136	146
19	394	301	329	248	213	226	121	78	104	172	149	158
20	333	278	294	251	212	225	98	68	83	194	163	178
21	345	292	313	261	220	238	91	71	81	207	174	192
22	316	269	286	256	217	234	97	80	90	160	145	151
23	309	272	292	270	231	246	118	98	104	173	154	165
24	---	---	---	277	239	252	117	92	103	188	162	175
25	---	---	---	281	233	256	---	---	---	197	180	189
26	---	---	---	294	236	256	---	---	---	210	182	192
27	---	---	---	279	226	243	---	---	---	211	184	195
28	---	---	---	241	223	235	---	---	---	219	188	198
29	---	---	---	261	230	242	---	---	---	240	192	203
30	---	---	---	277	242	259	---	---	---	217	191	197
31	---	---	---	295	255	272	---	---	---	200	192	196
MONTH	525	194	280	310	181	244	327	68	160	240	74	144

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	235	196	213	---	---	---	182	156	173	---	---	---
2	257	217	237	---	---	---	219	165	194	---	---	---
3	278	201	235	---	---	---	235	169	205	---	---	---
4	279	226	250	---	---	---	226	161	203	---	---	---
5	286	231	251	---	---	---	296	232	263	---	---	---
6	239	228	231	---	---	---	333	249	300	---	---	---
7	282	232	250	272	267	270	369	293	313	---	---	---
8	317	239	281	281	264	273	295	279	286	---	---	---
9	285	236	261	288	273	282	349	278	308	---	---	---
10	308	240	275	292	209	282	412	302	359	---	---	---
11	323	255	286	290	274	282	401	194	311	---	---	---
12	328	267	289	296	277	286	---	---	---	---	---	---
13	268	254	260	304	284	292	---	---	---	---	---	---
14	309	253	274	306	275	292	---	---	---	---	---	---
15	346	283	316	291	243	274	---	---	---	---	---	---
16	356	320	337	293	271	280	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	405	384	396	---	---	---
20	---	---	---	---	---	---	441	381	403	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	398	328	375	---	---	---	---	---	---
24	---	---	---	437	318	354	---	---	---	---	---	---
25	---	---	---	339	315	327	---	---	---	---	---	---
26	---	---	---	377	310	331	---	---	---	---	---	---
27	---	---	---	401	315	358	---	---	---	---	---	---
28	---	---	---	460	357	400	---	---	---	---	---	---
29	---	---	---	455	210	358	---	---	---	---	---	---
30	---	---	---	288	209	235	---	---	---	---	---	---
31	---	---	---	298	181	228	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	525	68	232									

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.3	7.6	7.8	8.8	7.8	8.2	9.1	7.7	8.4	9.2	8.6	8.9
2	8.8	7.6	7.9	8.1	7.7	7.9	9.2	7.9	8.6	8.7	8.4	8.6
3	8.3	7.5	7.7	8.6	7.8	8.1	9.3	7.5	8.7	8.6	8.4	8.5
4	7.7	7.5	7.6	8.1	7.7	7.9	8.8	7.6	8.2	8.9	8.3	8.5
5	7.9	7.5	7.6	8.2	7.7	7.9	8.7	8.1	8.4	8.5	8.3	8.4
6	7.9	7.5	7.6	8.4	7.7	8.0	8.3	7.9	8.1	8.3	7.8	8.2
7	8.0	7.4	7.6	8.4	7.8	8.1	8.4	7.9	8.0	9.2	7.9	8.7
8	8.0	7.4	7.6	7.8	7.7	7.7	8.6	7.7	8.1	9.2	7.9	8.3
9	8.2	7.4	7.7	8.1	7.6	7.8	8.6	7.0	7.7	8.5	7.9	8.2
10	7.8	7.4	7.6	8.8	7.7	8.1	8.9	7.2	8.1	8.1	7.8	8.0
11	7.6	7.4	7.5	8.1	7.6	7.9	8.9	7.2	8.0	8.6	7.8	8.1
12	7.8	7.4	7.6	8.3	7.7	7.9	8.8	7.5	8.1	8.9	7.6	8.2
13	8.2	7.4	7.6	8.7	7.9	8.3	8.5	7.4	7.8	8.6	7.6	8.0
14	7.8	7.4	7.6	9.3	8.1	8.5	8.2	7.5	7.6	8.5	7.7	8.0
15	7.5	6.4	6.9	8.6	8.3	8.4	9.6	7.6	8.7	8.2	7.6	7.8
16	7.5	7.0	7.3	8.9	8.5	8.7	9.1	7.6	8.5	8.4	7.8	8.2
17	8.6	7.5	7.7	9.7	8.7	9.1	9.2	7.7	8.4	8.2	7.8	7.9
18	7.7	7.4	7.6	9.7	8.7	9.2	9.1	7.9	8.5	8.4	7.8	8.1
19	7.8	7.5	7.6	9.5	8.8	9.1	9.6	8.1	8.9	8.8	7.7	8.3
20	8.7	7.4	7.8	9.0	8.7	8.9	8.9	8.3	8.5	8.2	7.8	8.0
21	8.8	7.4	7.7	9.2	7.9	8.5	9.0	8.3	8.5	8.3	7.7	8.0
22	8.3	7.3	7.7	8.1	7.6	7.7	9.5	8.3	8.9	7.7	7.6	7.7
23	7.9	7.4	7.6	8.1	7.5	7.7	9.8	8.5	9.1	8.2	7.6	7.9
24	8.2	7.4	7.6	8.9	7.8	8.2	9.9	8.6	9.2	7.8	7.6	7.7
25	7.8	7.5	7.6	9.2	8.0	8.6	9.7	8.8	9.1	7.8	7.6	7.7
26	8.0	7.6	7.7	9.0	7.9	8.5	8.9	8.8	8.8	8.6	7.5	7.8
27	8.8	7.6	8.0	8.2	7.8	8.0	8.9	8.7	8.8	7.9	7.4	7.6
28	9.1	7.4	8.3	8.1	7.9	8.0	9.4	8.7	8.9	8.0	7.3	7.6
29	9.1	7.8	8.3	8.7	7.8	8.1	9.7	8.8	9.2	8.5	7.7	8.1
30	8.9	7.7	8.2	8.0	7.7	7.8	9.8	9.0	9.4	8.9	7.8	8.2
31	8.5	7.7	8.0	---	---	---	9.4	9.0	9.2	8.1	7.8	7.9
MONTH	9.1	6.4	7.7	9.7	7.5	8.2	9.9	7.0	8.5	9.2	7.3	8.1

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	7.8	8.1	---	---	---	9.0	8.1	8.4	---	---	---
2	8.5	7.8	8.1	---	---	---	8.7	7.5	8.2	---	---	---
3	8.4	7.6	8.0	7.8	7.3	7.6	7.6	7.4	7.5	---	---	---
4	8.4	7.6	7.9	8.1	7.3	7.6	7.8	7.5	7.7	---	---	---
5	8.7	7.6	8.1	8.0	7.5	7.7	8.2	7.4	7.7	---	---	---
6	8.8	7.8	8.2	8.2	7.7	7.9	7.6	7.0	7.3	---	---	---
7	8.4	7.9	8.1	7.8	7.3	7.4	8.3	7.5	7.7	---	---	---
8	9.1	8.0	8.2	7.9	7.3	7.5	8.0	7.5	7.7	---	---	---
9	9.1	8.0	8.5	8.3	7.4	7.7	7.8	7.5	7.7	---	---	---
10	9.0	7.8	8.3	8.1	7.4	7.7	7.7	7.5	7.6	---	---	---
11	9.2	7.9	8.4	8.4	7.4	7.7	7.9	7.4	7.6	---	---	---
12	8.7	7.8	8.2	8.5	7.5	7.9	8.1	7.1	7.7	---	---	---
13	8.5	7.5	7.9	8.8	7.6	7.9	7.5	6.7	7.2	---	---	---
14	7.8	7.3	7.5	7.7	7.6	7.6	8.0	7.4	7.5	---	---	---
15	7.6	7.3	7.4	8.0	7.5	7.7	8.4	7.8	8.1	---	---	---
16	7.9	7.3	7.6	8.2	7.5	7.8	8.4	7.8	8.1	---	---	---
17	8.0	7.3	7.7	7.9	7.2	7.4	8.1	7.8	7.9	---	---	---
18	8.5	7.5	7.9	8.0	7.5	7.8	7.9	7.7	7.8	---	---	---
19	8.3	7.6	7.9	8.3	7.7	8.0	8.0	7.4	7.7	---	---	---
20	8.8	7.6	8.0	8.3	7.7	7.9	8.0	7.4	7.7	---	---	---
21	8.0	7.7	7.8	7.8	7.7	7.7	7.4	7.2	7.3	---	---	---
22	8.4	7.7	8.0	8.1	7.7	7.8	---	---	---	---	---	---
23	8.3	7.9	8.1	8.6	7.7	8.1	---	---	---	---	---	---
24	---	---	---	9.0	7.4	8.0	---	---	---	---	---	---
25	---	---	---	8.5	7.5	7.9	---	---	---	7.7	7.4	7.5
26	---	---	---	8.6	7.4	7.9	---	---	---	7.7	7.2	7.3
27	---	---	---	8.3	7.5	7.7	---	---	---	7.5	7.2	7.3
28	---	---	---	7.9	7.8	7.9	---	---	---	7.7	7.2	7.4
29	---	---	---	8.2	7.7	7.9	---	---	---	7.5	7.2	7.4
30	---	---	---	9.0	7.6	8.2	---	---	---	7.6	7.3	7.4
31	---	---	---	8.5	7.7	8.1	---	---	---	7.8	7.3	7.5
MONTH	9.2	7.3	8.0	9.0	7.2	7.8	---	---	---	---	---	---

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

PH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.3	7.5	---	---	---	7.5	7.3	7.4	---	---	---
2	8.0	7.4	7.7	---	---	---	7.4	7.2	7.3	---	---	---
3	7.9	7.4	7.5	---	---	---	7.5	7.3	7.3	---	---	---
4	8.2	7.4	7.7	---	---	---	7.6	7.3	7.4	---	---	---
5	8.2	7.5	7.9	---	---	---	7.9	7.4	7.6	---	---	---
6	8.4	7.7	8.0	---	---	---	7.7	7.4	7.6	---	---	---
7	8.5	7.7	8.1	8.0	7.5	7.8	7.8	7.4	7.6	---	---	---
8	8.2	7.5	7.9	7.9	7.5	7.6	7.6	7.5	7.5	---	---	---
9	8.1	7.6	7.9	8.0	7.4	7.6	7.7	7.5	7.6	---	---	---
10	8.2	7.5	7.9	7.9	7.4	7.6	7.8	7.5	7.7	---	---	---
11	8.3	7.5	7.7	8.0	6.6	7.7	7.8	7.7	7.7	---	---	---
12	8.2	7.4	7.8	8.0	7.5	7.7	---	---	---	---	---	---
13	8.0	7.5	7.7	7.9	7.5	7.6	---	---	---	---	---	---
14	8.0	7.4	7.7	8.2	7.5	7.7	---	---	---	---	---	---
15	8.2	7.3	7.6	8.2	7.3	7.6	---	---	---	---	---	---
16	7.6	7.3	7.4	8.1	7.3	7.5	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	7.4	7.3	7.3	---	---	---
21	---	---	---	---	---	---	7.5	7.3	7.4	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	8.2	7.5	7.8	---	---	---	---	---	---
24	---	---	---	8.1	7.4	7.6	---	---	---	---	---	---
25	---	---	---	8.0	7.3	7.6	---	---	---	---	---	---
26	---	---	---	8.2	7.3	7.6	---	---	---	---	---	---
27	---	---	---	8.0	7.3	7.5	---	---	---	---	---	---
28	---	---	---	7.8	7.2	7.5	---	---	---	---	---	---
29	---	---	---	7.7	7.3	7.5	---	---	---	---	---	---
30	---	---	---	7.6	7.3	7.4	---	---	---	---	---	---
31	---	---	---	7.5	7.3	7.4	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	9.9	6.4	7.9									

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.2	6.9	8.0	---	---	---	12.0	11.0	11.5
2	---	---	---	8.6	6.2	7.4	---	---	---	11.8	11.2	11.6
3	---	---	---	7.5	4.7	6.2	10.7	9.7	10.1	11.7	11.1	11.4
4	8.6	7.1	8.0	6.6	4.5	5.4	12.4	9.4	10.7	11.5	10.6	11.1
5	7.0	4.2	5.8	6.2	4.2	5.0	13.5	12.1	13.0	11.0	10.2	10.7
6	8.1	4.2	5.7	6.3	4.5	5.3	12.7	12.1	12.4	12.4	10.8	11.4
7	6.5	3.5	4.9	6.2	4.4	5.3	13.1	12.2	12.7	12.3	11.6	11.9
8	5.0	2.7	3.9	6.8	5.4	6.2	12.5	11.8	12.3	12.1	11.4	11.7
9	4.1	2.1	3.1	7.8	5.9	6.8	13.0	12.0	12.4	11.9	11.5	11.7
10	3.9	2.0	3.0	7.6	5.9	6.4	12.8	11.8	12.2	12.2	11.8	11.9
11	4.5	2.3	3.2	7.1	4.0	6.0	12.9	11.7	12.4	12.1	11.6	11.8
12	4.6	1.9	3.1	7.3	4.8	5.9	12.7	12.0	12.5	12.6	11.1	12.0
13	3.8	1.2	2.3	6.9	4.4	5.6	13.1	12.1	12.5	13.5	12.6	13.0
14	3.0	0.4	1.4	7.3	5.4	6.2	12.8	12.1	12.4	12.9	12.3	12.6
15	2.8	0.5	1.8	9.0	6.2	8.0	12.9	11.8	12.4	12.5	11.5	12.2
16	3.6	2.8	3.4	10.1	9.0	9.7	12.7	11.9	12.4	12.4	12.0	12.2
17	---	---	---	10.0	8.0	9.5	13.0	10.9	11.7	12.1	11.8	12.0
18	---	---	---	10.3	8.6	9.3	11.9	11.0	11.6	11.7	11.2	11.5
19	---	---	---	8.9	7.5	8.4	12.0	11.0	11.6	11.2	10.4	10.7
20	---	---	---	9.0	8.0	8.6	12.2	11.6	12.0	10.6	10.0	10.4
21	---	---	---	10.7	8.3	9.6	12.4	11.9	12.1	11.2	10.1	10.5
22	7.5	4.1	6.8	11.7	10.4	11.0	12.3	11.5	11.8	10.9	10.5	10.8
23	8.1	6.7	7.7	11.2	10.2	10.7	11.9	11.2	11.7	11.2	10.7	11.0
24	8.5	7.4	7.9	12.1	11.2	11.8	12.0	11.0	11.5	11.5	11.2	11.4
25	9.5	8.0	8.6	12.7	12.0	12.3	12.1	11.2	11.8	11.5	11.1	11.3
26	9.4	7.6	8.3	12.3	11.5	11.9	12.2	11.8	12.0	11.5	10.9	11.2
27	9.1	6.8	8.0	11.6	10.7	11.2	12.1	11.9	12.0	11.7	11.3	11.5
28	9.6	7.0	8.2	10.9	10.3	10.6	12.2	11.8	12.0	11.3	10.8	11.1
29	9.0	7.0	7.9	11.4	10.6	11.0	12.0	11.0	11.6	11.1	10.4	10.8
30	9.0	5.9	7.4	---	---	---	11.9	11.1	11.4	11.0	9.9	10.6
31	8.9	6.0	7.4	---	---	---	12.3	11.3	11.7	11.3	11.0	11.2
MONTH	---	---	---	12.7	4.0	8.3	13.5	9.4	12.0	13.5	9.9	11.4

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.3	10.8	11.1	---	---	---	12.1	10.2	11.1	---	---	---
2	10.9	9.9	10.3	---	---	---	---	---	---	---	---	---
3	15.0	9.0	10.4	12.2	11.9	12.1	---	---	---	---	---	---
4	10.7	8.8	10.2	12.1	11.5	11.9	---	---	---	---	---	---
5	9.7	8.4	8.9	12.1	11.6	12.0	---	---	---	---	---	---
6	9.8	8.0	9.3	12.4	11.7	12.1	12.6	11.9	12.3	11.4	11.0	11.2
7	10.4	10.0	10.3	12.5	11.9	12.3	13.5	11.6	12.5	11.8	10.1	11.0
8	10.6	10.1	10.4	12.6	12.0	12.3	12.9	11.5	12.1	11.8	11.0	11.4
9	10.6	9.3	10.2	12.6	11.4	12.3	13.5	11.3	12.3	11.9	11.5	11.7
10	10.9	10.1	10.5	12.4	11.7	12.2	13.4	11.8	12.8	12.1	10.4	11.4
11	11.0	10.0	10.5	11.9	11.5	11.7	14.0	12.1	13.1	11.7	9.4	10.7
12	11.1	9.9	10.7	11.9	10.6	11.3	13.8	11.1	12.8	10.9	7.5	10.0
13	11.2	10.1	10.8	12.0	10.8	11.4	---	---	---	10.7	9.4	10.4
14	16.3	11.2	14.5	12.1	11.0	11.6	13.1	12.8	12.9	10.8	9.2	10.1
15	16.5	11.7	12.8	12.4	11.0	11.6	13.2	11.9	12.5	10.6	8.7	9.7
16	---	---	---	12.6	11.8	12.3	12.6	12.0	12.3	9.7	8.8	9.3
17	---	---	---	13.0	11.5	12.3	12.9	11.5	12.3	---	---	---
18	---	---	---	13.2	12.0	12.5	12.9	11.9	12.4	---	---	---
19	---	---	---	12.9	12.0	12.5	12.8	11.2	12.1	---	---	---
20	---	---	---	12.6	11.8	12.2	12.6	10.6	11.8	---	---	---
21	---	---	---	12.5	11.8	12.1	12.3	11.3	11.9	---	---	---
22	---	---	---	12.7	11.2	11.9	12.7	12.1	12.4	---	---	---
23	---	---	---	12.1	11.1	11.5	12.8	11.9	12.4	---	---	---
24	---	---	---	12.8	10.8	12.0	15.4	11.6	12.4	---	---	---
25	---	---	---	13.1	11.9	12.4	---	---	---	9.1	7.7	8.5
26	---	---	---	13.0	11.8	12.4	---	---	---	9.2	7.5	8.6
27	---	---	---	13.1	11.6	12.2	---	---	---	9.4	8.3	9.0
28	---	---	---	13.1	11.6	12.3	---	---	---	9.7	7.6	8.8
29	---	---	---	12.5	11.5	12.0	---	---	---	9.3	6.9	8.2
30	---	---	---	12.4	10.9	11.7	---	---	---	9.2	6.9	8.3
31	---	---	---	12.4	10.4	11.4	---	---	---	9.3	7.6	8.3
MONTH	---	---	---	13.2	10.4	12.0	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.6	3.8	6.0	---	---	---
2	8.4	6.8	7.3	---	---	---	6.0	3.4	4.6	---	---	---
3	8.6	6.1	7.1	---	---	---	5.1	2.6	4.0	---	---	---
4	8.3	5.4	6.6	---	---	---	6.7	3.7	5.6	---	---	---
5	9.1	4.4	6.7	---	---	---	7.0	4.2	5.5	---	---	---
6	9.8	5.9	7.8	---	---	---	6.1	3.1	4.6	---	---	---
7	8.6	4.2	6.7	8.0	4.2	5.7	6.0	3.0	4.3	---	---	---
8	7.2	3.2	4.7	7.5	3.5	5.5	6.9	3.1	4.8	---	---	---
9	7.4	5.6	6.4	7.0	2.8	4.9	6.5	2.1	4.3	---	---	---
10	8.7	4.5	6.4	4.9	1.6	3.4	5.6	1.5	3.4	---	---	---
11	8.7	4.2	6.1	4.3	1.5	3.1	5.5	1.5	3.7	---	---	---
12	8.6	3.9	6.0	---	---	---	---	---	---	---	---	---
13	8.7	4.0	5.8	---	---	---	---	---	---	---	---	---
14	8.4	4.2	6.0	9.0	4.3	7.1	---	---	---	---	---	---
15	8.6	3.0	5.3	9.7	3.7	6.7	---	---	---	---	---	---
16	7.3	3.4	4.7	9.6	3.4	5.8	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	5.5	1.7	3.4	---	---	---
20	---	---	---	---	---	---	4.3	1.2	2.5	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	7.7	1.8	5.0	---	---	---	---	---	---
24	---	---	---	7.6	2.0	4.4	---	---	---	---	---	---
25	---	---	---	8.5	0.6	5.1	---	---	---	---	---	---
26	---	---	---	9.0	2.3	5.3	---	---	---	---	---	---
27	---	---	---	8.0	1.7	4.3	---	---	---	---	---	---
28	---	---	---	8.4	1.9	4.0	---	---	---	---	---	---
29	---	---	---	7.9	2.2	4.6	---	---	---	---	---	---
30	---	---	---	6.2	2.3	4.7	---	---	---	---	---	---
31	---	---	---	6.0	3.7	4.8	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	16.5	0.4	9.3									

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	12.0	13.0	9.5	7.0	8.5	6.0	4.0	5.0	0.5	0.5	0.5
2	13.5	11.0	12.5	10.5	7.0	9.0	8.5	5.5	7.0	1.0	0.5	0.5
3	15.5	13.0	14.0	11.0	8.0	10.0	6.5	5.5	6.0	1.0	0.5	1.0
4	13.5	11.5	12.0	11.5	10.0	10.5	7.0	3.0	6.0	1.0	0.5	1.0
5	12.5	11.0	11.5	10.5	8.5	9.5	2.5	0.5	1.5	1.5	1.0	1.0
6	13.0	9.5	11.5	8.5	6.5	7.5	2.0	1.0	1.5	1.5	0.5	1.0
7	16.0	12.0	14.5	9.5	6.5	8.0	1.0	0.5	1.0	1.0	0.5	0.5
8	16.5	13.5	15.5	9.0	6.5	8.0	1.0	0.0	0.5	0.5	0.5	0.5
9	17.0	14.0	16.0	8.0	5.5	6.5	2.0	0.5	1.0	0.5	0.5	0.5
10	17.5	14.5	16.0	9.5	7.0	8.0	4.0	2.0	3.0	1.0	0.5	0.5
11	17.5	15.5	16.5	12.0	9.5	10.5	2.5	1.0	2.0	1.0	0.5	1.0
12	17.5	15.5	17.0	12.0	11.0	11.5	2.0	1.0	1.5	1.5	0.5	1.0
13	17.5	16.0	17.0	11.0	10.0	10.5	2.5	1.0	2.0	0.5	0.5	0.5
14	18.0	16.5	17.5	10.0	9.0	9.5	3.0	1.0	2.5	0.5	0.5	0.5
15	18.0	15.0	16.5	9.5	8.0	8.5	2.0	0.5	1.0	1.0	0.5	0.5
16	15.0	10.5	13.0	8.0	5.5	7.0	1.0	0.5	0.5	0.5	0.5	0.5
17	10.5	7.5	9.0	6.0	5.0	5.5	1.0	0.5	1.0	0.5	0.5	0.5
18	9.5	6.5	8.0	6.0	4.0	5.0	1.0	0.5	1.0	0.5	0.5	0.5
19	10.5	8.0	9.0	7.0	6.0	6.5	1.5	0.5	1.0	0.5	0.5	0.5
20	10.0	6.0	8.5	8.5	7.0	7.5	2.0	1.5	1.5	0.5	0.5	0.5
21	12.0	8.5	10.5	8.5	5.5	7.5	1.5	0.5	1.0	0.5	0.0	0.5
22	12.5	11.0	11.5	6.5	4.5	5.5	0.5	0.5	0.5	0.5	0.5	0.5
23	13.5	11.5	13.0	7.0	4.0	6.0	1.0	0.5	0.5	0.5	0.5	0.5
24	14.0	12.0	13.0	4.0	2.0	3.0	1.0	0.5	0.5	0.5	0.5	0.5
25	12.5	11.0	11.5	2.5	0.5	1.5	1.0	0.5	1.0	1.0	0.5	0.5
26	11.5	10.5	11.0	3.5	1.0	2.0	1.0	0.5	0.5	1.0	0.5	0.5
27	10.5	8.0	9.5	6.0	3.5	4.5	1.0	0.5	0.5	0.5	0.5	0.5
28	9.0	6.5	8.0	7.0	5.5	6.5	1.0	0.5	0.5	0.5	0.5	0.5
29	9.0	5.5	7.5	6.5	5.5	6.0	0.5	0.5	0.5	0.5	0.5	0.5
30	8.5	5.5	7.0	7.0	5.5	6.5	0.5	0.5	0.5	0.5	0.5	0.5
31	8.5	5.5	7.5	---	---	---	1.0	0.5	0.5	0.5	0.5	0.5
MONTH	18.0	5.5	12.0	12.0	0.5	7.0	8.5	0.0	1.5	1.5	0.0	0.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.5	0.5	---	---	---	6.5	2.5	4.5	---	---	---
2	0.5	0.5	0.5	---	---	---	---	---	---	---	---	---
3	0.5	0.5	0.5	2.5	1.0	2.0	---	---	---	---	---	---
4	0.5	0.5	0.5	1.0	0.5	0.5	---	---	---	---	---	---
5	0.5	0.5	0.5	1.5	0.5	1.0	---	---	---	---	---	---
6	0.5	0.5	0.5	2.0	0.5	1.0	5.0	4.0	4.5	8.0	7.0	7.5
7	0.5	0.5	0.5	1.5	1.0	1.0	5.0	2.0	3.5	11.0	6.0	8.5
8	0.5	0.5	0.5	2.5	1.0	1.5	6.0	2.0	4.0	8.5	7.0	7.5
9	0.5	0.5	0.5	1.5	0.5	1.0	7.0	2.0	4.5	7.5	6.5	7.0
10	0.5	0.5	0.5	2.5	0.5	1.5	5.5	3.5	4.0	11.5	7.0	9.0
11	0.5	0.5	0.5	3.0	2.0	2.5	7.5	2.5	5.0	13.5	8.0	10.5
12	1.0	0.5	1.0	5.0	2.0	3.0	8.0	2.5	5.0	12.5	9.5	11.0
13	1.5	1.0	1.5	3.0	2.0	2.5	8.0	3.5	5.5	12.0	9.0	10.0
14	1.5	0.5	1.0	5.5	2.5	4.0	5.0	3.0	4.0	13.0	8.0	10.0
15	1.0	0.5	0.5	5.0	3.0	4.0	6.0	2.0	4.0	13.5	7.5	10.5
16	2.0	0.5	1.0	5.0	2.5	3.0	4.0	3.0	3.5	11.5	10.0	10.5
17	2.0	0.5	1.0	4.5	2.0	2.5	7.0	2.5	4.5	14.5	9.0	11.5
18	3.5	1.5	2.5	4.5	1.0	3.0	5.5	3.0	4.5	17.0	10.0	13.5
19	4.0	2.5	3.0	2.5	0.5	1.5	9.0	4.0	6.0	18.5	12.0	15.5
20	3.0	1.5	2.0	3.0	0.5	2.0	8.5	4.0	6.0	19.0	14.0	16.5
21	2.5	1.5	2.0	3.5	2.0	2.5	6.5	4.5	5.5	16.5	12.0	13.5
22	3.0	2.0	2.5	5.5	1.5	3.0	5.5	4.5	5.0	13.0	10.5	11.5
23	2.5	2.0	2.0	5.0	1.5	3.0	6.0	4.0	5.0	14.0	8.0	11.0
24	---	---	---	3.0	1.5	2.0	7.5	3.5	5.5	14.0	8.0	11.5
25	---	---	---	4.0	0.5	2.0	---	---	---	16.5	11.5	13.5
26	---	---	---	4.0	0.5	2.5	---	---	---	15.5	13.0	14.0
27	---	---	---	5.0	1.0	3.0	---	---	---	13.0	12.0	12.5
28	---	---	---	5.5	1.5	3.5	---	---	---	15.0	11.5	13.0
29	---	---	---	4.5	3.0	3.5	---	---	---	18.0	11.0	14.5
30	---	---	---	5.0	2.5	4.0	---	---	---	16.0	13.5	14.5
31	---	---	---	7.0	3.5	5.0	---	---	---	18.5	13.5	15.5
MONTH	4.0	0.5	1.0	7.0	0.5	2.5	---	---	---	19.0	6.0	11.5

01333300 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS.--Continued

TEMPERATURE (° C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	12.5	15.5	---	---	---	23.0	19.5	21.5	---	---	---
2	16.5	13.0	15.0	---	---	---	22.5	21.0	21.5	---	---	---
3	17.5	14.0	15.5	---	---	---	21.5	20.5	21.0	---	---	---
4	20.0	15.0	17.5	---	---	---	20.5	18.0	19.5	---	---	---
5	19.5	15.5	17.5	---	---	---	21.5	17.0	19.0	---	---	---
6	18.0	13.5	16.0	---	---	---	22.0	17.5	20.0	---	---	---
7	21.5	15.5	18.5	23.5	22.5	23.0	22.0	18.0	20.0	---	---	---
8	22.5	18.5	20.5	24.0	19.5	22.0	22.5	18.5	20.5	---	---	---
9	21.0	17.0	19.0	23.5	20.5	22.0	24.5	20.5	22.0	---	---	---
10	20.5	15.0	17.5	23.0	19.5	21.0	24.0	21.5	22.5	---	---	---
11	19.5	14.5	17.0	21.0	18.0	20.0	23.5	21.5	22.5	---	---	---
12	20.5	15.0	18.0	22.5	18.0	20.0	---	---	---	---	---	---
13	20.0	17.0	19.0	21.5	18.0	20.0	---	---	---	---	---	---
14	19.5	17.0	18.0	21.5	19.0	20.0	---	---	---	---	---	---
15	20.0	15.5	18.0	22.0	18.0	20.0	---	---	---	---	---	---
16	19.0	16.0	17.0	22.0	19.0	20.0	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	22.5	22.0	22.0	---	---	---
20	---	---	---	---	---	---	22.0	21.5	22.0	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	24.0	21.5	23.0	---	---	---	---	---	---
24	---	---	---	24.5	21.5	23.0	---	---	---	---	---	---
25	---	---	---	23.5	22.0	22.5	---	---	---	---	---	---
26	---	---	---	24.5	21.0	22.5	---	---	---	---	---	---
27	---	---	---	23.5	21.0	22.5	---	---	---	---	---	---
28	---	---	---	23.5	18.5	21.0	---	---	---	---	---	---
29	---	---	---	23.0	19.5	21.5	---	---	---	---	---	---
30	---	---	---	21.5	20.5	21.0	---	---	---	---	---	---
31	---	---	---	22.5	20.0	21.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	24.5	0.0	8.0									

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y., at bridge on New York-Vermont State Highway 346, at State line, 1.3 miles northwest of North Pownal, Vt.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

REMARKS.--Additional chemical analyses for this station in radiochemical and pesticide tables.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEM-PERA-TURE (DEG C)	AIR TEM-PERA-TURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 06...	1330	225	200	8.5	--	11.5	12.0	E240000
NOV. 05...	1215	154	365	—	7.7	9.0	11.0	55000
DEC. 09...	1500	349	—	9.1	--	1.0	-.5	--
JAN. 07...	1300	—	—	9.0	7.5	.5	-2.0	143000
FEB. 23...	1200	--	286	13.2	7.9	.0	.0	--
MAR. 23...	1200	449	284	9.2	7.7	3.0	6.0	15000
APR. 06...	1100	588	187	13.8	7.9	3.0	13.5	7200
MAY 05...	1100	1900	120	9.6	8.0	6.0	10.5	5900
JUNE 10...	1100	296	274	9.2	8.4	18.5	16.0	36000
JULY 01...	1700	135	320	5.7	7.6	23.5	22.0	97000
AUG. 05...	1030	262	239	14.1	7.4	18.5	26.0	100000
SEP. 01...	1000	279	260	6.0	7.5	17.5	15.5	270000

DATE	FECAL COLI-FORM (COL. PER 100 ML)	NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METH-YLENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)
OCT. 06...	24000	.6	1.7	.26	.05	9	.1	5
NOV. 05...	--	.4	1.2	.28	.29	15	2.0	3
DEC. 09...	200000	.7	1.2	.36	.07	9	.0	10
JAN. 07...	2800	.6	1.3	.29	.06	12	.0	7
FEB. 23...	--	.7	1.4	.21	.03	8	.0	6
MAR. 23...	—	.9	.98	.19	.04	14	—	9
APR. 06...	600	.9	.72	.12	.05	11	.0	8
MAY 05...	870	.6	.15	.070	.04	12	3.0	6
JUNE 10...	34	.1	.93	.17	.06	17	6.8	3
JULY 01...	1300	.6	1.8	.22	.09	13	4.3	28
AUG. 05...	3800	.4	.87	.23	.05	12	3.1	1
SEP. 01...	9900	.5	1.4	.27	.09	20	.0	20

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JULY, 1971												
01...	135	--	--	--	107	--	--	--	.93	2.5	--	--
AUG.												
05...	262	--	--	--	79	--	--	--	--	--	--	--
SEP.												
01...	279	149	163	22	90	4	2.6	.01	1.0	1.8	180	3

DATE	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
JULY, 1971											
01...	--	--	--	33	--	--	--	.85	130	--	--
AUG.,											
05...	--	--	--	29	--	--	--	.30	96	--	--
SEP.,											
01...	4.4	130	140	28	6.8	15	1.9	.35	110	34	14

DATE	DISSOLVED FLUORIDE (F) (MG/L)	NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JULY, 1971												
01...	--	.13	.22	--	--	--	--	--	--	--	--	--
AUG.												
05...	--	.070	.23	--	--	--	--	--	--	--	--	--
SEP.												
01...	.1	.030	.27	98	8	12	200	6	14	0	1	10

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	IMMEDIATE COLIFORM (COL. PER 100 ML)
MERRIMACK RIVER BASIN								
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK N H (LAT 43 58 34 LONG 071 40 48)								
OCT., 1970								
05...	1630	626	52	10.2	6.3	9.8	9.6	—
MAY , 1971								
04...	1000	4300	31	12.1	5.1	2.7	9.3	100
JUNE								
07...	1700	475	43	9.5	5.6	17.9	33.5	45
JULY								
12...	1000	78	52	9.0	6.4	17.8	22.5	17
AUG.								
09...	1600	163	47	8.6	6.1	23.0	30.5	10
SEP.								
14...	1100	752	37	9.6	5.9	15.6	18.0	>200
NARRAGANSETT BAY								
01109150 - MOUNT HOPE BAY NEAR BRISTOL R I (LAT 41 39 45 LONG 071 13 45)								
DEC., 1970								
01...	—	—	40200	9.4	7.6	9.0	11.0	12
MAR., 1971								
01...	1115	--	40300	13.0	8.0	4.6	9.5	16
JUNE								
16...	1145	--	40800	9.3	8.0	17.8	19.6	5
AUG.								
31...	1200	—	41400	7.5	7.7	21.6	19.5	47
01115050 - PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)								
DEC., 1970								
01...	1200	--	39100	7.4	7.4	9.2	9.0	580
MAR., 1971								
01...	1315	--	38300	10.4	7.8	3.5	9.6	130
JUNE								
16...	1320	--	37400	3.0	7.8	19.2	18.0	850
AUG.								
31...	1420	--	41200	2.6	7.6	24.1	22.5	410
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT, NEAR WARWICK, R.I. (LAT 41 43 20 LONG 071 21 00)								
DEC., 1970								
01...	1115	--	39100	8.5	7.5	9.0	9.0	31
MAR., 1971								
01...	1230	--	38000	12.3	7.9	4.0	9.6	95
JUNE								
16...	1245	--	37600	11.8	8.2	18.8	18.0	13
AUG.								
31...	1320	--	41700	4.8	7.7	22.6	22.4	6
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 071 24 00)								
DEC., 1970								
01...	0830	--	40500	9.0	7.7	8.2	7.5	9
MAR., 1971								
01...	0845	--	42900	12.5	7.9	2.2	2.8	1
JUNE								
16...	0900	--	41100	8.7	8.0	15.5	16.0	4
AUG.								
31...	0900	—	42900	8.8	7.9	20.8	18.0	0
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)								
DEC., 1970								
01...	0915	--	40700	9.0	7.8	10.0	7.5	22
MAR., 1971								
01...	0920	—	43500	10.6	8.0	2.0	6.4	52
JUNE								
16...	1000	--	41200	9.4	8.0	15.0	18.5	2
AUG.								
31...	1000	—	42700	9.7	7.9	18.9	19.2	91

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	FECAL COLI-FORM (COL. PER 100 ML)	NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METH-YLENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)
MERRIMACK RIVER BASIN								
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK N H (LAT 43 58 34 LONG 071 40 48)								
OCT., 1970								
05...	1	.2	.40	.000	.02	4	.0	<1
MAY , 1971								
04...	1	.4	.42	.020	.03	21	1.5	2
JUNE								
07...	0	.2	.23	.000	.04	8	.5	1
JULY								
12...	<1	.2	.27	.040	.02	16	.0	5
AUG.								
09...	0	.1	.27	.020	.02	8	.3	3
SEP.								
14...	76	.1	.41	.020	.03	18	.7	3
NARRAGANSETT BAY								
01109150 - MOUNT HOPE BAY NEAR BRISTOL R I (LAT 41 39 45 LONG 071 13 45)								
DEC., 1970								
01...	1	.00	.28	.10	1.0	--	.5	3
MAR., 1971								
01...	11	.00	.27	.070	7.4	--	3.5	1
JUNE								
16...	<1	.00	.85	.060	.86	--	6.1	2
AUG.								
31...	9	.00	.99	.16	1.9	--	5.2	2
01115050 - PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 071 22 35)								
DEC., 1970								
01...	41	.00	.65	.17	.93	--	1.2	4
MAR., 1971								
01...	32	.00	.67	.11	5.6	--	3.3	3
JUNE								
16...	15	.00	1.2	.29	.79	--	9.6	2
AUG.								
31...	48	.00	3.0	.21	.54	--	1.8	2
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT, NEAR WARWICK, R.I. (LAT 41 43 20 LONG 071 21 00)								
DEC., 1970								
01...	0	.00	.46	.14	1.0	--	.8	4
MAR., 1971								
01...	14	.00	.56	.13	5.6	--	5.0	2
JUNE								
16...	<1	.00	.30	.13	.82	--	7.4	2
AUG.								
31...	1	.00	1.3	.19	.58	--	2.3	2
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 071 24 00)								
DEC., 1970								
01...	1	.00	.36	.080	1.1	--	.8	3
MAR., 1971								
01...	1	.00	.10	.070	1.9	--	1.8	5
JUNE								
16...	<1	.00	.76	.060	.66	--	2.2	4
AUG.								
31...	0	.00	1.4	.11	.57	--	3.5	4
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 071 21 00)								
DEC., 1970								
01...	3	.00	.39	.050	1.1	--	.7	2
MAR., 1971								
01...	8	.00	.10	.040	6.5	--	1.2	1
JUNE								
16...	1	.00	1.3	.030	.84	--	1.0	1
AUG.								
31...	6	.00	.98	.090	.57	--	1.9	1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	TIME	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED OXYGEN (MG/L)	PH (UNITS)	TEM-PERA-TURE (DEG C)	AIR TEM-PERA-TURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
ST. LAWRENCE RIVER BASIN								
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y (LAT 43 34 55 LONG 073 25 19)								
OCT., 1970								
05...	1500	--	185	9.0	--	13.5	17.0	20000
MAY , 1971								
18...	1430	--	197	9.3	8.0	15.5	33.0	190
JUNE								
08...	1500	--	222	8.9	7.9	20.5	27.5	E21000
JULY								
01...	--	--	202	6.7	7.9	24.0	34.0	18000
AUG.								
03...	1500	--	224	--	7.9	24.5	24.0	21000
SEP.								
09...	1430	--	246	7.9	8.1	23.0	26.5	25000
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 50 06 LONG 073 23 16)								
OCT., 1970								
05...	1200	--	225	--	--	15.5	19.5	3800
MAY , 1971								
18...	1100	--	150	9.6	8.1	13.0	22.0	20
JUNE								
08...	1135	--	204	8.2	7.8	19.5	27.0	180
JULY								
01...	1100	--	193	7.5	7.8	23.5	28.0	180
AUG.								
03...	1200	--	165	--	8.1	24.0	23.0	3800
SEP.								
09...	1130	--	178	7.4	8.2	23.0	22.5	1570
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT, N.Y. (LAT 43 55 25 LONG 073 24 20)								
OCT., 1970								
05...	1100	--	210	6.6	7.0	15.0	19.5	8
MAY , 1971								
18...	1030	--	162	8.7	8.2	13.5	20.0	<1
JUNE								
08...	1105	--	213	9.4	8.2	19.0	27.0	41
JULY								
01...	1000	--	195	7.9	8.3	23.5	27.0	200
AUG.								
03...	1130	--	222	--	8.2	23.0	23.0	1600
SEP.								
09...	1030	--	190	7.5	8.3	22.5	22.0	2600

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	FECAL COLI-FORM (COL. PER 100 ML)	NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METH-YLENE BLUE ACTIVE SUB-STANCE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	TUR-BID-ITY (JTU)
ST. LAWRENCE RIVER BASIN								
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y (LAT 43 34 55 LONG 073 25 19)								
OCT., 1970								
05...	1800	.3	.67	.080	.04	7	.5	20
MAY , 1971								
18...	35	.3	.32	.050	.04	17	3.8	7
JUNE								
08...	660	.3	.67	.050	.03	12	5.7	8
JULY								
01...	260	.4	.53	.050	.03	8	5.8	9
AUG.								
03...	400	.2	.58	.10	.05	13	7.9	80
SEP.								
09...	300	.3	.53	.060	.03	12	3.2	10
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 50 06 LONG 073 23 16)								
OCT., 1970								
05...	164	.00	.72	.060	.06	27	2.0	25
MAY , 1971								
18...	26	.09	.26	.020	.03	18	1.9	3
JUNE								
08...	32	.04	.51	.020	.04	21	5.5	10
JULY								
01...	2	.02	.41	.030	.03	9	5.8	7
AUG.								
03...	180	.00	.38	.040	.02	9	9.3	2
SEP.								
09...	40	.1	.75	.040	.06	11	4.5	20
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT, N.Y. (LAT 43 55 25 LONG 073 24 20)								
OCT., 1970								
05...	<1	.3	.59	.050	.06	14	1.3	20
MAY , 1971								
18...	1	.1	.35	.030	.03	17	2.6	9
JUNE								
08...	<1	.06	.40	.020	.03	16	1.9	15
JULY								
01...	<1	.05	.44	.030	.03	12	6.9	10
AUG.								
03...	10	.00	.49	.060	.02	10	1.0	15
SEP.								
09...	0	.1	.55	.040	.03	18	2.5	35

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION, AS BOTH MICROGRAMS AND PICOCURIES OF URANIUM EQUIVALENT PER LITER OF WATER; GROSS BETA RADIATION AS BOTH STRONTIUM-90/YTTRIUM-90 AND CESIUM-137, IN PICOCURIES PER LITER OF WATER.

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FIL-TRABLE RESIDUE (MG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON-FIL-TRABLE RESIDUE (MG/L)
MERRIMACK RIVER BASIN										
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43 58 34 LONG 71 40 48)										
SEP., 1971 14...	2.5	.8	4.1	5.0	39	1.5	.5	1.0	1.1	2
01096550 - MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42 38 20 LONG 71 22 17)										
SEP., 1971 13...	1.8	.6	3.4	4.2	99	<.4	<.1	1.2	1.3	6
NARRAGANSETT BAY										
01109150 - MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41 39 45 LONG 71 13 45)										
AUG., 1971 31...	<370	<120	280	350	34000	<.4	.1	<.4	.4	4
01115050 - PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 71 22 35)										
AUG., 1971 31...	<360	<120	280	340	33000	<.4	<.1	<.4	<.4	4
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT, NEAR WARWICK, R.I. (LAT 41 43 20 LONG 71 21 00)										
AUG., 1971 31...	<350	<120	320	400	32000	<.4	<.1	<.4	.4	6
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 71 24 00)										
AUG., 1971 31...	<370	<120	330	400	34000	<.4	<.1	<.4	<.4	2
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 71 21 00)										
AUG., 1971 31...	<380	<130	260	320	35000	<.4	<.1	<.4	<.4	0
CONNECTICUT RIVER BASIN										
01141900 - CONNECTICUT RIVER AT WILDER, VT. (LAT 43 40 04 LONG 72 18 13)										
SEP., 1971 14...	2.4	.8	3.8	4.5	120	<.4	<.1	.6	.7	2
01161200 - CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42 42 44 LONG 72 27 14)										
SEP., 1971 15...	.9	.3	3.1	3.9	86	<.4	<.1	.5	.5	3
HUDSON RIVER BASIN										
01333300 - HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42 44 28 LONG 73 12 47)										
SEP., 1971 15...	2.3	.8	3.1	3.9	120	18	6.0	12	15	230
01333350 - HOOSIC RIVER NEAR NORTH POWNAL, VT. (LAT 42 48 33 LONG 73 17 12)										
SEP., 1971 01...	2.7	.9	3.4	4.3	150	1.3	.4	1.4	1.5	18

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION, AS BOTH MICROGRAMS AND PICOCURIES OF URANIUM EQUIVALENT PER LITER OF WATER; GROSS BETA RADIATION AS BOTH STRONTIUM-90/YTTRIUM-90 AND CESIUM-137, IN PICOCURIES PER LITER OF WATER.

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	TOTAL FIL- TRABLE RESIDUE (MG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL NON- FIL- TRABLE RESIDUE (MG/L)
ST. LAWRENCE RIVER BASIN										
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 73 25 19)										
SEP., 1971 09...	4.8	--	4.0	--	150	.7	--	1.4	--	19
04294408 - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 50 06 LONG 73 23 16)										
SEP., 1971 09...	1.4	--	3.6	--	110	1.1	--	1.3	--	11
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT, N.Y. (LAT 43 55 25 LONG 73 24 20)										
SEP., 1971 09...	2.0	--	3.4	--	110	4.7	--	3.6	--	31

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)
MERRIMACK RIVER BASIN									
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43 58 34 LONG 71 40 48)									
SEP 14...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01096550 - MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42 38 20 LONG 71 22 17)									
SEP 13...	.00	.00	.00	.00	.00	.00	.00	.00	.00
NARRAGANSETT BAY									
01109150 - MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41 39 45 LONG 71 13 45)									
AUG 31...	.00	.00	.00	.00	.00	M.00	.00	--	.00
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 71 22 35)									
AUG 31...	.00	.00	.00	.00	.00	.01	.00	.00	.00
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT NEAR WARWICK, R.I. (LAT 41 43 20 LONG 71 21 00)									
AUG 31...	.00	.00	.00	.00	.00	.01	.00	.00	.00
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 71 24 00)									
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 71 21 00)									
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	.00
CONNECTICUT RIVER BASIN									
01141900 - CONNECTICUT RIVER AT WILDER, VT. (LAT 43 40 04 LONG 72 18 13)									
SEP 14...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01161200 - CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42 42 44 LONG 72 27 14)									
SEP 15...	.00	.00	.00	.00	.00	M.00	.00	.00	.00
HUDSON RIVER BASIN									
01333300 - HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42 44 28 LONG 73 12 47)									
SEP 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01333300 - HOOSIC RIVER NEAR NORTH POWNAL, VT. (LAT 42 48 33 LONG 73 17 12)									
SEP 1...	.00	.00	.00	.00	.00	.00	.00	.00	.00
ST. LAWRENCE RIVER BASIN									
04279402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 73 20 19)									
SEP 9...	.00	.00	.00	.00	.00	.00	.00	.00	.00
04279408 - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 50 06 LONG 73 23 16)									
SEP 9...	.00	.00	.00	.00	.00	.00	.00	.00	.00
04279410 - LAKE CHAMPLAIN NEAR CROWN POINT, N.Y. (LAT 43 56 29 LONG 73 24 23)									
SEP 9...	.00	.00	.00	.00	.00	.00	.00	.00	.00

M Presence of material verified but not quantified.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
MERRIMACK RIVER BASIN									
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43 58 34 LONG 71 40 48)									
SEP 14...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01096550 - MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42 38 20 LONG 71 22 17)									
SEP 13...	.00	.00	.00	.00	.00	.00	.00	.00	.00
NARRAGANSETT BAY									
01109150 - MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41 39 45 LONG 71 13 45)									
AUG 31...	.00	--	--	.00	.00	.00	.00	.00	.00
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 71 22 35)									
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT NEAR WARWICK, R.I. (LAT 41 43 20 LONG 71 21 00)									
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 71 24 00)									
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 71 21 00)									
AUG 31...	.00	.00	.00	.00	.00	.00	.00	.00	.00
CONNECTICUT RIVER BASIN									
01141900 - CONNECTICUT RIVER AT WILDER, VT. (LAT 43 40 04 LONG 72 18 13)									
SEP 14...	.00	.00	.00	.00	.00	.00	.01	.00	.00
01161200 - CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42 42 44 LONG 72 27 14)									
SEP 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00
HUDSON RIVER BASIN									
01333500 - HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42 44 28 LONG 73 12 47)									
SEP 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00
01333200 - HOOSIC RIVER NEAR NORTH POWNAL, VT. (LAT 42 48 33 LONG 73 17 12)									
SEP 7...	.00	.00	.00	.00	.00	--	.00	.00	.00
ST. LAWRENCE RIVER BASIN									
04294402 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 73 25 19)									
SEP 9...	.00	.00	.00	.00	.00	--	.00	.01	.00
04294400 - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 50 06 LONG 73 23 16)									
SEP 9...	.00	.00	.00	.00	.00	.00	.00	.07	.00
04294410 - LAKE CHAMPLAIN NEAR CROWN POINT, N.Y. (LAT 44 58 20 LONG 73 24 20)									
SEP 9...	.00	.00	.00	.00	.00	.00	.00	.00	.00

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MERRIMACK RIVER BASIN									
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43 58 34 LONG 71 40 48)									
SEP., 1971 14...	752	37	--	0	--	--	--	3.7	--
NARRAGANSETT BAY									
01109150 - MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41 39 45 LONG 71 13 45)									
AUG., 1971 31...	--	41400	--	1	--	--	--	<.5	--
01115050 - PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41 47 15 LONG 71 22 35)									
AUG., 1971 31...	--	41200	--	1	--	--	--	<.5	--
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT NEAR WARWICK, R.I. (LAT 41 43 20 LONG 71 21 00)									
AUG., 1971 31...	--	41700	--	0	--	--	--	<.5	--
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 31 45 LONG 71 24 00)									
AUG., 1971 31...	--	42900	--	0	--	--	--	<.5	--
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41 30 45 LONG 71 21 00)									
AUG., 1971 31...	--	42700	--	2	--	--	--	<.5	--
ST. LAWRENCE RIVER BASIN									
04294602 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y. (LAT 43 34 55 LONG 73 25 19)									
SEP., 1971 09...	--	246	100	3	0	10	0	--	20
04294608 - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 50 06 LONG 73 23 16)									
SEP., 1971 08...	--	170	0	4	2	10	1	--	2
04294610 - LAKE CHAMPLAIN NEAR CROWN POINT, N.Y. (LAT 43 59 28 LONG 73 24 20)									
SEP., 1971 09...	--	190	0	1	0	20	0	--	10

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

SUPPLEMENTAL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
MERRIMACK RIVER BASIN												
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK N H (LAT 43 58 34 LONG 071 40 48)												
JULY, 1971 12...	78	--	--	--	7	--	--	--	.16	--	--	--
SEP 14...	752	47	26	5	3	4	.8	.00	.31	.52	3.0	1
NARRAGANSETT BAY												
01109150 - MOUNT HOPE BAY NEAR BRISTOL R I (LAT 41 39 45 LONG 071 13 45)												
AUG., 1971 31...	--	32000	30410	360	105	20	2.0	.00	.87	.99	1.0	0
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE R I (LAT 41 47 15 LONG 071 22 35)												
AUG., 1971 31...	--	31900	30120	379	107	21	1.0	.00	1.2	3.0	1.0	0
01116630 - PROVIDENCE RIVER OFF ONIMICUT POINT NEAR WARWICK R I (LAT 41 43 20 LONG 071 21 00)												
AUG., 1971 31...	--	32100	29280	370	108	18	3.9	.01	.91	1.3	1.0	1
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN R I (LAT 41 31 45 LONG 071 24 00)												
AUG., 1971 31...	--	33300	30920	400	109	20	2.5	.00	1.3	1.4	1.0	0
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN R I (LAT 4. 30 45 LONG 071 21 00)												
AUG., 1971 31...	--	33200	31240	373	110	21	1.6	.00	.94	.98	1.0	0
ST. LAWRENCE RIVER BASIN												
[illegible] - LAKE CHAMPLAIN (EST BAY) NEAR WHITEHALL N Y (LAT 43 34 55 LONG 073 25 19)												
JULY, 1971 01...	--	--	--	-	64	--	--	--	.34	.92	--	--
SEP. 09...	--	190	120	2	87	1	3.4	.01	.44	.84	1.0	0
[illegible] - LAKE CHAMPLAIN NEAR TICONDEROGA N Y (LAT 43 50 06 LONG 073 23 16)												
JULY, 1971 01...	--	--	--	-	70	--	--	--	.31	.44	--	--
SEP. 09...	--	121	98	1	61	3	2.4	.00	.60	.86	4.0	0
[illegible] - LAKE CHAMPLAIN NEAR CROWN POINT N Y (LAT 43 55 25 LONG 073 24 20)												
JULY, 1971 01...	--	--	--	-	70	--	--	--	.31	.51	--	--
SEP. 09...	--	127	100	1	63	1	2.0	.00	.43	.66	1.0	0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

SUPPLEMENTAL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--CONTINUED

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
MERRIMACK RIVER BASIN												
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK N H (LAT 43 58 34 LONG 071 40 48)												
JULY, 1971												
12...	78	--	--	--	5.0	--	--	--	.11	8	--	--
AUG.												
09...	163	--	--	--	--	--	--	--	.11	--	--	--
SEP.												
14...	752	6.9	230	--	3.0	.3	4.0	.5	.10	4	7.0	.4
NARRAGANSETT BAY												
01109150 - MOUNT HOPE BAY NEAR BRISTOL R I (LAT 41 39 45 LONG 071 13 45)												
AUG., 1971												
31...	--	1.2	--	--	350	1000	10000	390	.12	128	2600	16000
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE R I (LAT 41 47 15 LONG 071 22 35)												
AUG., 1971												
31...	--	1.4	--	--	370	1000	10000	380	1.8	130	2300	16000
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT NEAR WARWICK R I (LAT 41 43 20 LONG 071 21 00)												
AUG., 1971												
31...	--	1.4	--	--	370	340	9900	400	.38	132	2200	16000
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN R I (LAT 41 31 45 LONG 071 24 00)												
AUG., 1971												
31...	--	1.1	--	--	360	690	10000	400	.06	133	2400	17000
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN R I (LAT 41 30 45 LONG 071 21 00)												
AUG., 1971												
31...	--	.7	--	--	370	1000	10000	400	.04	134	2400	17000
ST. LAWRENCE RIVER BASIN												
[illegible] - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y (LAT 43 34 55 LONG 073 25 10)												
JULY, 1971												
01...	--	--	--	--	23	--	--	--	.19	78	--	--
AUG.												
03...	--	--	--	--	--	--	--	--	.05	--	--	--
SEP.												
09...	--	5.6	70	2	32	6.7	5.3	2.3	.09	106	23	8.5
[illegible] - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 50 06 LONG 073 23 16)												
JULY, 1971												
01...	--	--	--	--	70	--	--	--	.10	91	--	--
AUG.												
03...	--	--	--	--	--	--	--	--	.06	--	--	--
SEP.												
09...	--	2.1	500	0	22	6.7	6.1	2.3	.19	96	16	6.0
[illegible] - LAKE CHAMPLAIN NEAR CROWN POINT, N.Y. (LAT 43 55 25 LONG 073 26 22)												
JULY, 1971												
01...	--	--	--	--	25	--	--	--	.16	89	--	--
AUG.												
03...	--	--	--	--	--	--	--	--	.06	--	--	--
SEP.												
09...	--	1.6	770	2	26	5.3	4.0	2.1	.12	99	16	6.0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

SUPPLEMENTAL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--CONTINUED

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
MERRIMACK RIVER BASIN												
01075000 - PEMIGEWASSET RIVER AT WOODSTOCK N H (LAT 43 58 34 LONG 071 40 48)												
JULY, 1971 12...	—	.010	.2	.040	—	—	—	52	6.4	—	17.8	9.0
AUG. 09...	—	.010	.1	.020	—	—	—	47	6.1	—	23.0	8.6
SEP. 14...	.6	.010	.1	.020	26	9	5	37	5.9	35	15.6	9.6
NARRAGANSETT BAY												
01109150 - MOUNT HOPE BAY NEAR BRISTOL R I (LAT 41 39 45 LONG 071 13 45)												
AUG., 1971 31...	2.1	.000	.00	.16	30410	4990	4885	41400	7.7	4	21.6	7.5
01115050 - PROVIDENCE RIVER OFF FIELDS POINT NEAR PROVIDENCE R I (LAT 41 47 15 LONG 071 22 35)												
AUG., 1971 31...	2.2	.000	.00	.21	30120	5040	4934	41200	7.6	2	24.1	2.6
01116630 - PROVIDENCE RIVER OFF CONIMICUT POINT NEAR WARWICK R I (LAT 41 43 20 LONG 071 21 00)												
AUG., 1971 31...	2.2	.000	.00	.19	29280	2323	2215	41700	7.7	5	22.6	4.8
01117150 - WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN R I (LAT 41 31 45 LONG 071 24 00)												
AUG., 1971 31...	2.2	.000	.00	.11	30920	3739	3630	42900	7.9	3	20.8	8.8
01117160 - EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN R I (LAT 41 30 45 LONG 071 21 00)												
AUG., 1971 31...	2.2	.000	.00	.090	31240	5040	4930	42700	7.9	5	18.9	9.7
ST. LAWRENCE RIVER BASIN												
04294452 - LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y (LAT 43 34 55 LONG 073 25 19)												
JULY, 1971 01...	--	.023	.4	.053	--	--	--	202	7.9	--	24.0	6.7
AUG. 31...	--	.013	.2	.13	--	--	--	224	7.9	--	24.5	--
SEP. 0[illegible]...	.1	.013	.5	.063	133	110	21	246	8.1	11	23.0	7.9
[illegible] - LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y. (LAT 43 52 26 LONG 073 23 16)												
JULY, 1971 [illegible]...	--	.013	[illegible]	[illegible]	--	--	--	193	7.8	--	23.5	7.5
AUG. [illegible]...	--	.013	[illegible]	[illegible]	--	--	--	165	8.1	--	24.0	--
SEP. [illegible]...	.1	.013	.1	[illegible]	[illegible]	[illegible]	[illegible]	170	8.2	[illegible]	23.0	7.6
[illegible] - LAKE CHAMPLAIN NEAR [illegible], N.Y. (LAT 43 [illegible] LONG 073 [illegible])												
JULY, 1971 [illegible]...	--	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	--	[illegible]	[illegible]
AUG. [illegible]...	--	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	--	[illegible]	--
SEP. [illegible]...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, IN MICROGRAMS PER LITER

DATE	NUMBER OF SAMPLES	ALUMINUM (AL)	ANTIMONY (SB)	ARSENIC (AS)	BARIUM (BA)	BERYLLIUM (BE)	BISMUTH (BI)	BORON (B)	CADMIUM (CD)	CHROMIUM (CR)	COBALT (CO)	COPPER (CU)	GALLIUM (GA)	GERMANIUM (GE)	IRON (FE)	LANTHANUM (LA)
MERRIMACK RIVER BASIN																
01075000 PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43°58'34" LONG 71°40'48")																
JUL-OCT 1970	4	260	--	--	12	<1	<1	11	<9	<10	<1	57	--	<1	540	--
01096550 MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42°38'20" LONG 71°22'17")																
JUL-DEC 1970	6	45	--	--	18	<1	<2	20	<14	10	<1	15	--	<2	230	--
JAN-JUN 1971	6	510	--	--	16	<1	<2	19	<5	<10	<1	18	<1	<2	200	--
NARRAGANSETT BAY																
01109150 MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41°39'45" LONG 71°13'45")																
SEP-DEC 1970	2	340	<5	<22	<95	<1	<1	2200	<10	<10	<2	<22	--	<470	56	<5
3-1, 6-16-71	2	260	<3	<100	<90	<1	<1	2900	<10	<10	<1	<22	<90	<450	360	<5
01115050 PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41°47'15" LONG 71°22'35")																
9-3, 12-1-70	2	670	<5	<22	<90	<1	<1	2100	<10	<10	<2	<22	--	<450	180	<5
3-1, 6-16-71	2	280	<3	<100	<85	<1	<1	2200	<10	<10	<1	<22	<85	<420	630	<5
01116630 PROVIDENCE RIVER OFF CONIMICUT POINT, NEAR WARWICK, R.I. (LAT 41°43'20" LONG 71°21'00")																
9-3, 12-1-70	2	590	<5	<22	<95	<1	<1	2300	<10	<10	<2	<22	--	<460	120	<5
3-1, 6-16-71	2	250	<3	<100	<85	<1	<1	2500	<10	<10	<1	<22	<85	<420	460	<5
01117150 WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°31'45" LONG 71°24'00")																
9-3, 12-1-70	2	800	<5	<22	97	<1	<1	2600	<10	<10	<2	<22	--	<490	38	<5
3-1, 6-16-71	2	390	<3	<100	<95	<1	<1	2900	<10	<10	<1	<22	<95	<470	490	<5
01117160 EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°30'45" LONG 71°21'00")																
9-3, 12-1-70	2	770	<5	<22	<100	<1	<1	2200	<10	<10	<2	<22	--	<500	18	<5
3-1, 6-16-71	2	150	<3	<100	<95	<1	<1	2900	<10	<10	<1	<22	<95	<480	210	<5
CONNECTICUT RIVER BASIN																
01141900 CONNECTICUT RIVER AT WILDER, VT. (LAT 43°40'04" LONG 72°18'13)																
JUL-DEC 1970	6	68	--	--	16	<1	<2	9	<14	<10	<1	13	--	<2	290	--
JAN-JUN 1971	6	76	--	--	17	<1	<2	12	<6	<10	<1	14	<1	<2	180	--
01161200 CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42°42'44" LONG 72°27'14")																
JUL-NOV 1970	5	35	--	--	19	<1	<2	9	<20	<10	<2	16	--	<2	120	--
APR-JUN 1971	3	51	--	--	10	<1	<2	4	<5	<10	<1	15	<1	<2	76	--
01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41°59'16" LONG 72°36'21")																
JUL-DEC 1970	6	66	--	--	33	<1	<2	31	<20	<10	<2	12	--	<2	220	--
JAN-JUN 1971	6	110	--	--	26	<1	<1	19	<6	<10	<1	9	<1	<1	230	--
HUDSON RIVER BASIN																
01332500 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42°44'20" LONG 73°12'47")																
JUL-DEC 1970	6	200	--	--	25	<1	<5	44	<45	50	<5	3	--	<5	70	--
JAN-JUN 1971	6	190	--	--	21	<1	<3	44	<12	20	<1	3	<1	<3	67	--

CHEMICAL ANALYSES OF COMPOSITED SAMPLES, IN MICROGRAMS PER LITER

LEAD (PB)	LITH-IUM (LI)	MAN-GANESE (MN)	MOLYB-DENUM (MO)	NICKEL (NI)	RU-BID-IUM (RB)	SILVER (AG)	STRON-TIUM (SR)	TIN (SN)	TITA-NIUM (TI)	VANA-DIUM (V)	YTTER-BIUM (YB)	YTTRIUM (Y)	ZINC (ZN)	ZIRCO-NIUM (ZR)	DIS-SOLVED SOLIDS (RESI-DUE AT 180°C) (MG/L)
MERRIMACK RIVER BASIN															
01075000 PEMIGEWASSET RIVER AT WOODSTOCK, N.H. (LAT 43°58'34" LONG 71°40'48")															
70	<1	150	<1	3	3	<1	20	2	4	<1	--	--	230	--	57
01096550 MERRIMACK RIVER ABOVE LOWELL, MASS. (LAT 42°38'20" LONG 71°22'17")															
13	1	70	<1	5	3	<1	67	<1	1	1	--	--	<40	--	91
10	1	67	<1	5	2	<1	34	3	2	<1	--	--	41	<1	73
NARRAGANSETT BAY															
01109150 MOUNT HOPE BAY NEAR BRISTOL, R.I. (LAT 41°39'45" LONG 71°13'45")															
56	150	6	25	6	<130	<1	9800	<280	4	<470	<1	<1	24	<20	31200
32	110	13	18	160	--	<1	9500	<90	12	<270	<1	<1	51	<1	29403
01115050 PROVIDENCE RIVER OFF FIELDS POINT, NEAR PROVIDENCE, R.I. (LAT 41°47'15" LONG 71°22'35")															
54	150	13	20	20	<120	<1	9700	<270	10	<450	<1	<1	34	<20	29900
24	120	30	24	26	--	<1	7300	<85	13	<250	<1	<1	53	<1	27900
01116630 PROVIDENCE RIVER OFF CONIMICUT POINT, NEAR WARWICK, R.I. (LAT 41°43'20" LONG 71°21'00")															
50	140	12	20	16	<120	<1	9800	<280	8	<460	<1	<1	26	<20	30400
22	110	22	14	120	--	<1	7600	<85	11	<260	<1	<1	22	<1	28100
01117150 WEST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°31'45" LONG 71°24'00")															
56	150	3	22	4	<130	<1	10000	<290	3	<490	<1	<1	32	<20	32400
18	120	7	19	48	--	<1	9100	<95	15	<290	<1	<1	<22	<1	31400
01117160 EAST PASSAGE NARRAGANSETT BAY NEAR JAMESTOWN, R.I. (LAT 41°30'45" LONG 71°21'00")															
22	160	<2	18	<3	<140	<1	11000	<300	2	<500	<1	<1	<22	<20	33200
14	120	2	22	5	--	<1	10000	<95	6	<290	<1	<1	<22	<1	31900
CONNECTICUT RIVER BASIN															
01141900 CONNECTICUT RIVER AT WILDER, VT. (LAT 43°40'04" LONG 72°18'13")															
4	1	65	<1	2	4	<1	70	<1	2	<1	--	--	<40	--	91
3	<1	69	<1	5	2	<1	42	<2	2	<1	--	--	<52	<1	80
01161200 CONNECTICUT RIVER AT NORTHFIELD, MASS. (LAT 42°42'44" LONG 72°27'14")															
30	1	17	<1	2	3	<1	94	<2	2	<1	--	--	56	--	116
14	<1	34	<1	2	1	<1	36	<2	2	<1	--	--	53	<1	74
01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CONN. (LAT 41°59'14" LONG 72°36'21")															
5	1	96	<1	9	6	<1	100	<2	1	3	--	--	<65	--	--
7	<1	53	<1	8	2	<1	51	<13	5	3	--	--	<60	<3	--
HUDSON RIVER BASIN															
01333000 HOOSIC RIVER BELOW WILLIAMSTOWN, MASS. (LAT 42°44'28" LONG 73°12'47")															
5	9	100	<1	<6	2	<1	79	<3	<3	<2	--	--	<130	--	276
3	6	58	<1	6	1	<1	45	<3	<2	<2	--	--	<120	<2	182

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
MERRIMACK RIVER BASIN						
01076500 - PEMIGEWASSET RIVER AT PLYMOUTH N H (LAT 43 45 33 LONG 071 41 10)						
OCT., 1970						
22...	8.0	610	13	21	2	49
NOV.						
19...	4.0	487	9	12	2	50
DEC.						
22...	.0	430	2	2.3	1	55
JAN., 1971						
25...	.0	340	9	8.3	1	58
FEB.						
22...	.0	570	6	9.2	2	53
MAR.						
24...	.5	600	4	6.5	3	69
MAY						
21...	10.5	4180	2	23	4	32
JUNE						
23...	22.0	374	29	29	--	--
AUG.						
10...	24.5	319	22	19	2	56
23...	21.0	200	41	22	4	66
SEP.						
23...	14.5	454	12	15	2	47
01089000 - SOUCOOK RIVER NEAR CONCORD N H (LAT 43 14 22 LONG 071 27 44)						
FEB., 1971						
03...	.0	48	9	1.2	1	59
MAY						
24...	11.0	133	5	1.8	2	48
AUG.						
04...	21.0	37	3	.30	3	66
SEP.						
08...	19.0	9.2	0	.00	2	70
01094000 - SOUHEGAN RIVER AT MERRIMACK N H (LAT 42 51 27 LONG 071 30 24)						
NOV., 1970						
03...	5.0	51	11	1.5	2	102
JAN., 1971						
22...	.0	80	10	2.2	3	89
MAY						
11...	15.5	598	10	16	1	93
JUNE						
15...	20.5	75	7	1.4	1	66
JULY						
20...	26.5	39	10	1.1	3	108
AUG.						
31...	15.5	47	4	.51	2	97
01097000 - ASSABET RIVER AT MAYNARD MASS (LAT 42 25 55 LONG 071 27 01)						
OCT., 1970						
21...	13.0	23	6	.37	3	205
DEC.						
30...	.0	104	0	.00	--	--
MAY , 1971						
24...	10.0	239	2	1.3	3	151
JUNE						
25...	24.5	51	2	.28	3	181
AUG.						
02...	26.0	45	1	.12	3	207
01099500 - CONCORD RIVER BELOW RIVER MEADOW BROOK AT LOWELL MASS (LAT 42 38 12 LONG 071 18 09)						
MAR., 1971						
17...	3.0	1660	13	58	3	216
MAY						
20...	--	1160	13	44	3	182
JULY						
19...	27.0	66	18	3.0	6	306
AUG.						
19...	26.0	63	31	5.3	2	304

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

TAUNTON RIVER BASIN

01108000 - TAUNTON RIVER AT STATE FARM NEAR BRIDGEWATER MASS (LAT 41 56 05 LONG 070 57 18)

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT., 1970						
22...	14.0	94	14	3.6	3	218
DEC.						
21...	3.0	786	16	34	2	180
JAN., 1971						
25...	2.0	227	8	4.9	3	207
MAR.						
23...	5.0	926	0	.00	4	134
APR.						
22...	11.0	409	24	27	--	--
JULY						
13...	--	53	6	.86	6	232
SEP.						
28...	17.0	58	8	1.3	5	286

PAWCATUCK RIVER BASIN

01117800 - WOOD RIVER NEAR ARCADIA R I (LAT 41 34 26 LONG 071 43 16)

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
DEC., 1970						
05...	3.5	46	11	1.4	3	37
APR., 1971						
14...	9.5	103	4	1.1	1	39
MAY						
25...	16.5	72	2	.39	1	38
SEP.						
15...	19.0	30	11	.89	4	42

CONNECTICUT RIVER BASIN

01135500 - PASSUMPSIC RIVER AT PASSUMPSIC VT (LAT 44 21 56 LONG 072 02 23)

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV., 1970						
06...	5.5	199	5	2.7	1	204
JUNE, 1971						
02...	15.0	558	17	26	3	157

01137500 - AMMONOOSUC RIVER AT BETHLEHEM JUNCTION N H (LAT 44 16 08 LONG 071 37 52)

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV., 1970						
05...	3.5	79	4	.85	1	43
JAN., 1971						
29...	.0	47	8	1.0	1	53
MAR.						
11...	1.0	49	0	.00	--	--
JUNE						
04...	--	311	0	.00	4	29
AUG.						
23...	16.0	109	4	1.1	2	176

01144000 - WHITE RIVER AT WEST HARTFORD VT (LAT 43 42 51 LONG 072 25 07)

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT., 1970						
27...	9.5	443	6	7.2	1	130
APR., 1971						
23...	4.0	5960	20	322	--	--
MAY						
21...	13.0	1630	6	26	1	130
JUNE						
22...	22.0	318	8	6.9	2	226
JULY						
27...	21.5	223	6	3.6	1	196
AUG.						
20...	25.0	122	30	9.9	3	213
SEP.						
10...	10.5	583	0	.00	1	150

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
CONNECTICUT RIVER BASIN.--CONTINUED						
01153500 - WILLIAMS RIVER AT BROCKWAYS MILLS VT (LAT 43 12 31 LONG 072 31 05)						
DEC., 1970						
02...	5.0	79	12	2.6	1	91
FEB., 1971						
11...	.0	55	6	.89	1	101
APR.						
19...	6.5	746	5	10	9	121
MAY						
21...	13.5	166	0	.00	15	81
JULY						
02...	20.0	22	6	.36	5	143
AUG.						
17...	--	11	1	.03	2	159
01167800 - BEAVER BROOK AT WILMINGTON VT (LAT 42 51 38 LONG 072 51 04)						
DEC., 1970						
11...	.5	10	19	.51	2	52
MAR., 1971						
10...	.0	9.9	3	.08	4	69
APR.						
22...	6.5	74	11	2.2	9	38
MAY						
25...	15.0	8.8	4	.10	8	50
AUG.						
12...	--	1.8	6	.03	2	90
01181000 - WEST BRANCH WESTFIELD RIVER AT HUNTINGTON MASS (LAT 42 14 14 LONG 072 53 46)						
MAR., 1971						
03...	1.0	228	22	14	2	95
SEP.						
22...	17.5	115	2	.62	1	509
01183500 - WESTFIELD RIVER NEAR WESTFIELD MASS (LAT 42 06 24 LONG 072 41 58)						
DEC., 1970						
04...	9.5	535	18	26	--	--
FEB., 1971						
16...	.0	760	24	49	20	138
SEP.						
27...	16.5	176	3	1.4	5	199
HOUSATONIC RIVER BASIN						
01197500 - HOUSATONIC RIVER NEAR GREAT BARRINGTON MASS (LAT 42 13 55 LONG 073 21 19)						
SEP., 1971						
21...	19.0	355	18	17	14	274
01198000 - GREEN RIVER NEAR GREAT BARRINGTON MASS (LAT 42 11 31 LONG 073 23 28)						
DEC., 1970						
08...	3.5	56	6	.91	--	--
MAR., 1971						
03...	.5	109	31	16	6	168
APR.						
30...	7.0	136	3	1.1	1	145
JUNE						
10...	19.0	21	9	.51	1	219

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SPECIFIC CONDUCTANCE (MICROMHOS)
ST. LAWRENCE RIVER BASIN						
04282500 - OTTER CREEK AT MIDDLEBURY VT (LAT 44 00 47 LONG 073 10 06)						
NOV., 1970						
04...	9.0	367	9	8.9	1	200
DEC.						
16...	--	540	6	8.7	--	--
MAR., 1971						
10...	.0	724	0	.00	--	--
APR.						
21...	8.0	2970	13	104	--	--
JUNE						
02...	16.0	1070	4	12	2	185
JULY						
08...	20.5	249	20	13	4	221
AUG.						
12...	22.0	362	2	2.0	3	46
04288000 - MAD RIVER NEAR MORETOWN VT (LAT 44 16 42 LONG 072 44 37)						
OCT., 1970						
28...	8.0	107	4	1.2	1	80
APR., 1971						
14...	3.0	1250	53	179	--	--
MAY						
26...	11.0	508	12	16	3	50
JUNE						
30...	25.5	39	1	.11	2	99
AUG.						
04...	16.5	546	0	.00	8	55
SEP.						
29...	19.0	68	4	.73	1	91
04292500 - LAMOILLE RIVER AT EAST GEORGIA VT (LAT 44 40 45 LONG 073 04 23)						
NOV., 1970						
12...	6.0	582	7	11	1	134
JUNE, 1971						
01...	19.0	753	18	37	6	106
04293500 - MISSISQUOI RIVER NEAR RICHFORD VT (LAT 44 57 30 LONG 072 41 55)						
MAY , 1971						
26...	--	908	7	17	3	71

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
CHARLES RIVER BASIN												
01103214 - BEAVER BROOK NEAR HOLLISTON MASS (LAT 42 10 48 LONG 071 28 46)												
APR., 1971												
23...	3.9	2.2	50	0	6.0	1.0	9.6	.7	.13	5	9.6	18
01103217 - HOPPING BROOK NEAR WEST MEDWAY MASS (LAT 42 08 31 LONG 071 27 21)												
APR., 1971												
23...	20	.3	100	0	5.0	1.1	9.6	.8	.13	2	11	20
01103260 - CHARLES RIVER AT WEST MEDWAY MASS (LAT 42 08 12 LONG 071 25 08)												
APR., 1971												
22...	113	1.8	50	0	10	1.9	18	2.0	.12	14	15	33
01103290 - SAFE MEADOW BROOK NEAR WRENTHAM, MASS. (LAT 42 03 17 LONG 071 21 51)												
APR., 1971												
23...	1.4	2.2	20	0	11	2.1	13	.6	--	10	10	36
01103300 - MILL RIVER NEAR NORFOLK MASS (LAT 42 07 21 LONG 071 21 59)												
OCT., 1970												
02...	4.2	3.9	10	0	8.5	2.3	8.4	.8	.05	18	9.5	18
APR., 1971												
22...	26	2.6	50	0	8.0	2.5	11	.8	.04	18	11	22
01103308 - STOP RIVER TRIBUTARY NO 3 NEAR WRENTHAM MASS (LAT 42 05 22 LONG 071 18 54)												
OCT., 1970												
02...	.06	19	20	10	11	3.5	47	8.6	.06	52	21	44
01103350 - VINE BROOK AT MEDFIELD MASS (LAT 42 11 16 LONG 071 18 26)												
OCT., 1970												
02...	.35	12	130	50	13	2.2	17	1.2	.01	22	20	25
01103355 - CHARLES RIVER TRIBUTARY NO 2 AT MILLIS MASS (LAT 42 10 50 LONG 071 20 44)												
OCT., 1970												
02...	.87	19	10	20	20	5.4	33	3.2	11	119	18	46
01103370 - JAR BROOK NEAR HOLLISTON MASS (LAT 42 13 46 LONG 071 26 35)												
APR., 1971												
22...	1.0	8.0	30	0	13	3.7	24	1.4	.09	18	17	47
01103390 - BOGGASTOW BROOK NEAR MILLIS MASS (LAT 42 11 01 LONG 071 23 27)												
APR., 1971												
23...	27	2.9	80	0	13	2.8	17	1.8	.36	19	13	33
01103419 - INDIAN BROOK NEAR SHERBORN MASS (LAT 42 15 34 LONG 071 21 25)												
OCT., 1970												
05...	.40	12	310	0	23	5.8	28	6.3	.18	82	16	42
[illegible] - FULLER BROOK AT WELLESLEY MASS (LAT 42 17 45 LONG 071 17 18)												
APR., 1971												
22...	4.9	4.9	140	0	21	5.2	21	4.4	.22	53	21	42

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
CHARLES RIVER BASIN												
01103214 - BEAVER BROOK NEAR HOLLISTON MASS (LAT 42 10 48 LONG 071 28 46)												
APR., 1971 23...	.1	.000	.1	.010	50	19	15	92	6.2	20	9.0	—
01103217 - HOPPING BROOK NEAR WEST MEDWAY MASS (LAT 42 08 31 LONG 071 27 21)												
APR., 1971 23...	.1	.000	.1	.013	49	17	15	97	6.1	60	9.0	—
01103260 - CHARLES RIVER AT WEST MEDWAY MASS (LAT 42 08 12 LONG 071 25 08)												
APR., 1971 22...	.2	.000	1.0	.39	95	33	21	175	6.7	33	11.0	—
01103290 - SAFE MEADOW BROOK NEAR WRENTHAM, MASS. (LAT 42 03 17 LONG 071 21 51)												
APR., 1971 23...	.1	--	.02	—	80	36	28	162	6.7	2	11.0	—
01103300 - MILL RIVER NEAR NORFOLK MASS (LAT 42 07 21 LONG 071 21 59)												
OCT., 1970 02...	.1	.000	.3	.013	62	30	16	118	7.1	3	18.0	12.8
APR., 1971 22...	.1	.000	.4	.010	69	30	15	134	6.8	9	12.0	—
01103308 - STOP RIVER TRIBUTARY NO 3 NEAR WRENTHAM MASS (LAT 42 05 22 LONG 071 18 54)												
OCT., 1970 02...	1.9	.003	8.6	2.0	226	42	0	351	7.2	35	18.0	1.9
01103350 - VINE BROOK AT MEDFIELD MASS (LAT 42 11 16 LONG 071 18 26)												
OCT., 1970 02...	.0	.000	2.5	.013	112	42	24	191	7.5	4	13.0	10.7
01103355 - CHARLES RIVER TRIBUTARY NO 2 AT MILLIS MASS (LAT 42 10 50 LONG 071 20 44)												
OCT., 1970 02...	.0	.019	.7	2.7	224	72	0	369	6.7	29	17.0	1.2
01103370 - JAR BROOK NEAR HOLLISTON MASS (LAT 42 13 46 LONG 071 26 35)												
APR., 1971 22...	.2	.000	.7	.19	127	40	53	230	7.0	19	10.0	—
01103392 - BOGASTOW BROOK NEAR MILLIS MASS (LAT 42 11 01 LONG 071 23 27)												
APR., 1971 23...	.1	.010	.3	.029	94	43	27	177	7.2	30	8.0	—
[illegible]												
[illegible]	.2	.003	1.2	.030	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	50	13.0	[illegible]
[illegible]												
[illegible]	.1	.000	.6	.023	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.0	—

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS- CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
CHARLES RIVER BASIN.--CONTINUED												
01103500 - CHARLES RIVER AT CHARLES RIVER VILLAGE MASS (LAT 42 15 23 LONG 071 15 42)												
NOV., 1970 09...	169	7.2	60	0	10	1.8	10	1.7	.07	13	16	19
DEC. 11...	144	10	60	0	13	2.8	19	2.1	.02	18	22	33
JAN., 1971 22...	127	11	190	0	15	3.0	21	2.3	.60	26	21	38
FEB. 17...	600	2.1	10	0	10	2.1	20	1.9	.05	10	13	37
MAR. 18...	792	4.8	20	0	9.0	2.0	17	1.5	.09	14	13	31
APR. 23...	341	2.4	40	0	11	2.4	18	1.5	.12	18	14	34
01103700 - ROCK MEADOW BROOK AT WESTWOOD MASS (LAT 42 13 57 LONG 071 13 25)												
OCT., 1970 05...	.27	19	140	0	15	2.6	36	3.6	.26	34	9.5	66
01103990 - LOWDER BROOK AT DEDHAM MASS (LAT 42 15 07 LONG 071 10 21)												
OCT., 1970 05...	.63	12	10	0	30	5.3	23	2.8	.12	70	17	48
01104100 - SOUTH MEADOW BROOK AT NEWTON MASS (LAT 42 18 55 LONG 071 11 45)												
OCT., 1970 05...	.07	8.5	0	0	18	2.7	16	2.6	.02	30	19	36
01104250 - ROSEMARY BROOK AT WELLESLEY MASS (LAT 42 18 13 LONG 071 15 08)												
OCT., 1970 05...	2.7	83	10	0	21	3.9	21	1.8	.10	54	10	44
01104400 - HOBBS BROOK NEAR LINCOLN MASS (LAT 42 26 17 LONG 071 16 51)												
APR., 1971 22...	2.2	6.0	220	0	9.0	1.8	14	1.2	—	6	20	29
WEIR RIVER BASIN												
01105630 - CROOKED MEADOW RIVER NEAR HINGHAM CENTER MASS (LAT 42 12 53 LONG 070 53 06)												
NOV., 1970 24...	—	10	140	60	9.2	3.0	18	1.6	.16	12	21	32
APR., 1971 05...	—	4.7	170	40	8.3	2.7	22	1.7	.12	12	17	36
01105635 - ACCORD BROOK NEAR HINGHAM MASS (LAT 42 12 15 LONG 070 51 51)												
NOV., 1970 30...	2.4	9.7	300	60	9.0	3.0	14	.9	.18	8	23	24
APR., 1971 05...	4.0	6.6	300	70	6.2	2.2	12	.8	.19	7	17	22
01105640 - WEIR RIVER NEAR HINGHAM MASS (LAT 42 14 31 LONG 070 51 36)												
NOV., 1970 24...	—	10	200	110	9.3	3.3	14	1.4	.16	12	26	26
APR., 1971 05...	—	5.0	130	90	9.0	2.7	17	1.6	.11	12	19	30

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
CHARLES RIVER BASIN.--CONTINUED												
01103500 - CHARLES RIVER AT CHARLES RIVER VILLAGE MASS (LAT 42 15 23 LONG 071 15 42)												
NOV., 1970 09...	.1	.006	.6	.18	75	32	22	127	7.2	37	8.0	—
DEC. 11...	.1	.006	1.3	.25	118	44	29	203	7.2	50	1.0	—
JAN., 1971 22...	.1	.012	.9	.24	141	50	28	224	7.0	22	1.0	—
FEB. 17...	.1	.000	1.1	.098	96	34	25	163	6.6	15	1.0	—
MAR. 18...	.1	.000	.6	.033	88	31	19	164	6.9	25	4.0	—
APR. 23...	.1	.000	.6	.13	95	37	22	182	6.7	35	10.0	—
01103700 - ROCK MEADOW BROOK AT WESTWOOD MASS (LAT 42 13 57 LONG 071 13 25)												
OCT., 1970 05...	.1	.006	.4	.10	171	48	20	307	7.2	85	14.0	2.0
01103990 - LOWDER BROOK AT DEDHAM MASS (LAT 42 15 07 LONG 071 10 21)												
OCT., 1970 05...	.0	.006	.7	.085	176	97	40	327	7.0	15	16.0	8.0
01104100 - SOUTH MEADOW BROOK AT NEWTON MASS (LAT 42 18 55 LONG 071 11 45)												
OCT., 1970 05...	.4	.003	.8	.039	122	56	32	225	7.4	2	15.0	6.5
01104250 - ROSEMARY BROOK AT WELLESLEY MASS (LAT 42 18 13 LONG 071 15 08)												
OCT., 1970 05...	.1	.11	.3	.052	138	68	24	257	7.7	24	14.0	3.2
01104400 - HOBBS BROOK NEAR LINCOLN MASS (LAT 42 26 17 LONG 071 16 51)												
APR., 1971 22...	.1	--	.04	--	85	30	25	150	6.0	110	8.0	—
WEIR RIVER BASIN												
01105630 - CROOKED MEADOW RIVER NEAR HINGHAM CENTER MASS (LAT 42 12 53 LONG 070 53 06)												
NOV., 1970 24...	.0	.009	.3	—	103	36	26	170	6.9	55	6.0	—
APR., 1971 05...	.1	.010	.6	—	101	32	22	192	6.6	35	9.5	—
01105635 - ACCORD BROOK NEAR HINGHAM MASS (LAT 42 12 15 LONG 070 51 51)												
NOV., 1970 30...	.0	.009	.3	—	89	35	28	148	6.3	90	6.5	—
APR., 1971 05...	.1	.010	.2	—	72	24	19	124	6.0	80	6.5	—
01105640 - WEIR RIVER NEAR HINGHAM MASS (LAT 42 14 31 LONG 070 51 36)												
NOV., 1970 24...	.1	.612	.5	—	99	36	26	160	6.7	60	5.0	—
APR., 1971 05...	.1	.010	.6	—	93	33	24	170	6.7	28	8.5	—

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
BOUND BROOK BASIN												
01105660 - BOUND BROOK NEAR COHASSET MASS (LAT 42 12 44 LONG 070 49 18)												
NOV.. 1970												
30...	6.3	9.4	830	290	4.5	1.8	11	.7	.31	8	17	16
APR.. 1971												
05...	8.1	2.2	470	150	3.8	1.7	12	.7	.19	3	14	19
NORTH RIVER BASIN												
01105680 - CUSHING BROOK AT WEST HANOVER MASS (LAT 42 07 05 LONG 070 52 48)												
NOV.. 1970												
25...	--	11	740	200	9.0	3.2	21	2.1	.31	4	33	28
APR.. 1971												
06...	--	2.5	540	80	7.1	2.0	25	2.1	.20	3	21	44
01105690 - FRENCH STREAM NEAR ROCKLAND MASS (LAT 42 06 33 LONG 070 54 35)												
NOV.. 1970												
25...	--	7.6	100	650	14	4.0	25	2.8	.07	20	27	39
APR.. 1971												
06...	--	7.5	420	350	13	3.4	29	2.8	.67	25	20	48
01105700 - INDIAN HEAD BROOK NEAR HANSON MASS (LAT 42 05 13 LONG 070 51 26)												
NOV.. 1970												
24...	--	8.2	450	160	6.7	2.0	21	1.1	.18	4	16	36
APR.. 1971												
06...	--	3.5	270	70	6.0	1.6	24	1.0	.12	2	11	41
01105730 - INDIAN HEAD RIVER AT HANOVER MASS (LAT 42 06 02 LONG 070 49 23)												
NOV.. 1970												
30...	34	11	420	430	13	3.5	22	2.0	.93	12	44	39
MAR.. 1971												
08...	170	6.2	220	130	6.5	2.0	25	1.7	.34	6	15	44
APR.												
06...	48	3.6	390	140	8.2	2.6	27	1.9	.50	12	17	49
01105770 - HERRING BROOK AT PEMBROKE MASS (LAT 42 03 43 LONG 070 48 09)												
NOV.. 1970												
24...	--	7.0	250	90	5.0	1.6	10	1.0	.06	8	12	16
APR.. 1971												
06...	--	4.5	250	60	4.0	1.6	11	.8	.08	6	10	19
01105805 - PUDDING BROOK AT NORTH PEMBROKE MASS (LAT 42 05 25 LONG 070 47 32)												
NOV.. 1970												
24...	--	3.2	200	20	4.0	1.5	11	.8	.15	6	11	19
APR.. 1971												
06...	--	1.0	210	0	4.2	1.6	13	1.1	.08	6	10	23
01105810 - THIRD HERRING BROOK AT HANOVER MASS (LAT 42 07 01 LONG 070 48 35)												
NOV.. 1970												
24...	--	9.7	660	210	7.1	2.7	24	1.1	.33	4	19	38
APR.. 1971												
05...	--	2.6	470	140	6.5	1.9	30	1.1	.14	4	14	55
01105820 - SECOND HERRING BROOK AT NORWELL MASS (LAT 42 09 36 LONG 070 47 20)												
NOV.. 1970												
24...	--	9.2	320	170	6.0	3.2	16	.9	.16	4	22	30
APR.. 1971												
05...	--	2.5	190	80	5.0	1.8	22	.8	.09	3	13	41

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
BOUND BROOK BASIN												
01105660 - BOUND BROOK NEAR COHASSET MASS (LAT 42 12 44 LONG 070 49 18)												
NOV., 1970												
30...	.1	.009	.04	--	65	18	12	120	5.7	110	6.0	—
APR., 1971												
05...	.1	.000	.02	—	55	16	14	110	5.2	80	8.5	—
NORTH RIVER BASIN												
01105680 - CUSHING BROOK AT WEST HANOVER MASS (LAT 42 07 05 LONG 070 52 48)												
NOV., 1970												
25...	.0	.009	.1	—	110	36	32	208	5.1	130	2.0	—
APR., 1971												
06...	.0	.010	.1	--	106	26	23	206	5.5	100	7.0	—
01105690 - FRENCH STREAM NEAR ROCKLAND MASS (LAT 42 06 33 LONG 070 54 35)												
NOV., 1970												
25...	.1	.009	2.7	—	141	52	35	255	6.9	15	3.0	—
APR., 1971												
06...	.1	.15	1.1	—	142	46	26	261	6.7	19	8.0	—
01105700 - INDIAN HEAD BROOK NEAR HANSON MASS (LAT 42 05 13 LONG 070 51 26)												
NOV., 1970												
24...	.1	.006	.1	—	94	24	22	176	5.7	80	5.5	—
APR., 1971												
06...	.1	.000	.1	--	90	21	20	187	5.8	35	8.0	—
01105730 - INDIAN HEAD RIVER AT HANOVER MASS (LAT 42 06 02 LONG 070 49 23)												
NOV., 1970												
30...	.1	.033	.6	--	145	47	37	230	6.7	90	6.0	—
MAR., 1971												
08...	.1	.010	.5	--	106	24	19	203	6.2	30	2.0	—
APR.												
06...	.1	.010	.3	--	117	31	21	223	6.5	35	8.5	—
01105770 - HERRING BROOK AT PEMBROKE MASS (LAT 42 03 43 LONG 070 48 09)												
NOV., 1970												
24...	.0	.003	.1	—	57	19	12	96	6.6	30	6.0	—
APR., 1971												
06...	.0	.000	.00	--	54	16	11	99	6.4	8	8.5	—
01105805 - PUDDING BROOK AT NORTH PEMBROKE MASS (LAT 42 05 25 LONG 070 47 32)												
NOV., 1970												
24...	.1	.006	.02	—	54	16	11	98	6.4	45	5.5	—
APR., 1971												
06...	.1	.000	.00	—	57	17	12	110	6.2	20	9.5	—
01105810 - THIRD HERRING BROOK AT HANOVER MASS (LAT 42 07 01 LONG 070 48 35)												
NOV., 1970												
24...	.1	.006	.09	—	104	28	26	209	5.6	75	5.5	—
APR., 1971												
05...	.1	.000	.00	—	113	24	21	227	5.6	45	9.0	—
01105820 - SECOND HERRING BROOK AT NORWELL MASS (LAT 42 09 36 LONG 070 47 20)												
NOV., 1970												
24...	.1	.006	.04	—	90	28	25	154	5.5	75	5.5	—
APR., 1971												
05...	.1	.000	.00	—	88	20	17	172	5.5	20	9.0	—

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
NORTH RIVER BASIN.--CONTINUED												
01105830 - FIRST HERRING BROOK NEAR SCITUATE CENTER MASS (LAT 42 11 30 LONG 070 46 49)												
NOV.. 1970 30...	--	10	450	70	6.1	3.1	14	.4	.12	1	26	23
APR.. 1971 05...	2.8	6.8	250	70	4.2	1.9	15	.6	.15	0	17	27
SOUTH RIVER BASIN												
01105845 - SOUTH RIVER AT MARSHFIELD MASS (LAT 42 05 32 LONG 070 43 50)												
NOV.. 1970 24...	--	4.9	500	100	3.8	1.6	13	.9	.20	4	13	25
APR.. 1971 06...	--	1.2	330	30	3.5	1.4	15	1.0	.13	4	10	28
01105848 - FURNACE BROOK AT SCHOOL ST NEAR MARSHFIELD MASS (LAT 42 07 06 LONG 070 44 34)												
NOV.. 1970 24...	--	8.6	340	30	4.6	2.5	13	1.0	.10	0	17	23
APR.. 1971 05...	--	5.4	150	0	3.3	2.0	14	1.0	.05	0	13	26
JONES RIVER BASIN												
01105860 - JONES RIVER BROOK NEAR PLYMPTON MASS (LAT 42 59 18 LONG 070 48 10)												
NOV.. 1970 24...	--	10	770	130	3.0	.9	5.4	.5	.21	4	10	9.2
APR.. 1971 05...	--	2.8	460	30	3.0	1.0	5.6	.7	.15	2	10	9.6
01105870 - JONES RIVER AT KINGSTON MASS (LAT 41 59 27 LONG 070 44 03)												
NOV.. 1970 30...	18	8.4	380	80	3.2	1.3	8.1	.9	.19	5	9.0	15
MAR.. 1971 08...	50	4.1	280	0	2.9	1.0	7.9	.8	.16	5	9.0	14
APR. 06...	26	1.6	280	30	2.5	1.1	8.4	.9	.12	6	8.6	14
01105872 - HALLS BROOK AT KINGSTON MASS (LAT 41 59 57 LONG 070 43 56)												
NOV.. 1970 24...	--	7.2	370	50	4.2	1.6	16	1.0	.16	6	8.5	26
APR.. 1971 05...	--	1.0	240	20	4.0	1.6	19	1.3	.11	5	9.0	35
COASTAL RIVER BASINS												
01105874 - TOWN BROOK AT PLYMOUTH MASS (LAT 41 57 22 LONG 070 39 44)												
NOV.. 1970 25...	--	7.3	200	30	4.0	1.3	8.3	.9	.15	10	6.6	15
APR.. 1971 06...	--	6.2	220	30	4.0	1.6	9.8	.8	.09	11	7.0	16
01105876 - EEL RIVER NEAR PLYMOUTH MASS (LAT 41 56 30 LONG 070 37 23)												
NOV.. 1970 30...	--	7.9	120	60	2.0	1.1	8.1	7.0	.13	10	5.3	13
MAR.. 1971 08...	26	6.5	160	0	3.0	1.5	12	1.1	.22	10	7.0	20
APR. 06...	28	5.9	230	150	5.0	5.3	42	2.1	.12	10	18	75

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
NORTH RIVER BASIN.--CONTINUED												
01105830 - FIRST HERRING BROOK NEAR SCITUATE CENTER MASS (LAT 42 11 30 LONG 070 46 49)												
NOV.. 1970												
30...	.0	.006	.09	—	84	28	27	145	4.7	180	7.0	—
APR.. 1971												
05...	.1	.010	.00	—	73	18	18	136	4.8	120	7.5	—
SOUTH RIVER BASIN												
01105845 - SOUTH RIVER AT MARSHFIELD MASS (LAT 42 05 32 LONG 070 43 50)												
NOV.. 1970												
24...	.0	.006	.02	--	64	16	13	118	5.6	70	5.5	—
APR.. 1971												
06...	.1	.000	.00	—	62	14	11	123	5.8	37	11.0	—
01105848 - FURNACE BROOK AT SCHOOL ST NEAR MARSHFIELD MASS (LAT 42 07 06 LONG 070 44 34)												
NOV.. 1970												
24...	.0	.006	.00	—	70	22	22	139	4.5	90	5.5	—
APR.. 1971												
05...	.1	.000	.00	—	65	16	16	133	4.5	50	7.0	—
JONES RIVER BASIN												
01105860 - JONES RIVER BROOK NEAR PLYMPTON MASS (LAT 42 59 18 LONG 070 48 10)												
NOV.. 1970												
24...	.1	.006	.04	--	42	11	8	60	5.7	90	5.0	—
APR.. 1971												
05...	.1	.000	.00	—	34	12	10	58	5.8	60	9.0	—
01105870 - JONES RIVER AT KINGSTON MASS (LAT 41 59 27 LONG 070 44 03)												
NOV.. 1970												
30...	.0	.006	.2	—	50	14	10	88	6.7	33	7.0	—
MAR.. 1971												
08...	.2	.000	.1	--	43	11	7	72	5.7	25	3.0	—
APR.												
06...	.0	.000	.00	—	40	11	6	78	6.1	22	8.0	—
01105872 - HALLS BROOK AT KINGSTON MASS (LAT 41 59 57 LONG 070 43 56)												
NOV.. 1970												
24...	.1	.006	.04	—	68	17	12	127	6.0	50	5.5	—
APR.. 1971												
05...	.1	.000	.00	--	74	16	12	144	5.9	6	8.0	—
COASTAL RIVER BASINS												
01105874 - TOWN BROOK AT PLYMOUTH MASS (LAT 41 57 22 LONG 070 39 44)												
NOV.. 1970												
25...	.0	.006	.3	--	62	16	8	84	6.8	2	6.0	—
APR.. 1971												
06...	.0	.000	.3	—	52	16	7	92	6.5	3	9.0	—
01105876 - EEL RIVER NEAR PLYMOUTH MASS (LAT 41 56 30 LONG 070 37 23)												
NOV.. 1970												
30...	.1	.006	.1	—	44	10	2	73	6.8	7	7.0	—
MAR.. 1971												
08...	.2	.010	.1	—	57	14	5	98	6.6	6	3.0	—
APR.												
06...	.1	.000	.00	—	158	34	26	301	6.6	4	9.0	—

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
COASTAL RIVER BASINS.--CONTINUED												
01105878 - BEAVER DAM BROOK AT WHITE HORSE BEACH MASS (LAT 41 55 43 LONG 070 33 20)												
NOV.. 1970 25...	--	7.8	110	30	8.0	14	120	5.1	.07	10	30	210
APR.. 1971 06...	--	4.1	90	50	26	58	500	21	.08	16	120	900
01105883 - HERRING RIVER AT BOURNEDALE MASS (LAT 41 46 21 LONG 070 33 46)												
NOV.. 1970 25...	--	.0	20	0	1.3	.9	5.9	.4	.11	6	4.4	9.4
APR.. 1971 06...	--	.0	100	0	1.3	.8	5.8	.4	.15	6	5.4	9.0
01105886 - RED BROOK NEAR BUZZARDS BAY MASS (LAT 41 45 48 LONG 070 37 59)												
NOV.. 1970 25...	--	6.8	350	40	2.0	1.3	9.2	.6	.07	8	6.0	15
APR.. 1971 06...	--	4.5	220	0	1.8	1.1	7.3	.6	.05	5	6.3	12
01105888 - AGAWAM RIVER NEAR ELLISVILLE MASS (LAT 41 50 44 LONG 070 37 12)												
NOV.. 1970 25...	--	3.6	40	0	2.1	.8	4.8	.4	.09	8	4.0	7.7
APR.. 1971 06...	--	2.2	30	0	2.1	.8	4.8	.3	.06	10	5.0	6.0
01105890 - AGAWAM RIVER AT EAST WAREHAM MASS (LAT 41 45 40 LONG 070 40 40)												
NOV.. 1970 25...	--	3.4	120	20	2.0	.8	4.9	.4	.07	10	4.3	7.5
APR.. 1971 06...	--	2.4	180	30	2.0	.8	4.9	.5	.05	8	5.1	7.0
01105892 - WANKINCO RIVER AT WAREHAM MASS (LAT 41 45 58 LONG 070 43 20)												
NOV.. 1970 25...	--	5.3	500	60	3.0	1.4	10	1.0	.07	8	8.2	16
APR.. 1971 06...	--	3.3	170	80	2.5	1.1	6.7	.7	.05	6	7.0	11
01105895 - WEWEANTIC RIVER AT SOUTH WAREHAM MASS (LAT 41 46 12 LONG 070 45 18)												
NOV.. 1970 30...	69	6.3	720	100	3.0	.9	5.7	.6	.21	4	10	9.5
MAR.. 1971 08...	185	3.3	450	0	2.5	.7	4.6	.7	.17	3	9.3	8.3
APR. 06...	115	1.5	410	60	2.2	.8	5.2	.6	.12	3	7.6	9.3
BLACKSTONE RIVER BASIN												
01112905 - BLACKSTONE RIVER NEAR MANVILLE R I (LAT 41 57 45 LONG 071 27 49)												
MAY . 1971 24...	--	4.4	330	160	9.0	1.7	16	2.0	.12	10	17	26
01113700 - CATAMINT BROOK NEAR DIAMOND HILL R I (LAT 41 59 00 LONG 071 24 44)												
OCT.. 1970 01...	.13	10	190	100	7.3	1.3	5.3	.9	.12	19	10	7.8
01113750 - ABBOTT RUN NEAR SOUTH ATTLEBORO MASS (LAT 41 55 43 LONG 071 22 23)												
OCT.. 1970 01...	44	4.3	600	10	6.8	1.3	5.1	.8	.12	12	11	11

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DISSOLVED FLUORIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM COBALT UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
COASTAL RIVER BASINS.--CONTINUED												
01105878 - BEAVER DAM BROOK AT WHITE HORSE BEACH MASS (LAT 41 55 43 LONG 070 33 20)												
NOV., 1970 25...	.1	.003	.07	—	400	78	70	802	6.9	8	3.0	—
APR., 1971 06...	.1	.000	.00	—	1640	300	290	3090	6.8	3	10.5	—
01105883 - HERRING RIVER AT BOURNEDALE MASS (LAT 41 46 21 LONG 070 33 46)												
NOV., 1970 25...	.0	.006	.04	—	26	6	1	49	6.6	—	4.5	—
APR., 1971 06...	.0	.000	.00	—	26	6	2	49	6.2	3	7.5	—
01105886 - RED BROOK NEAR BUZZARDS BAY MASS (LAT 41 45 48 LONG 070 37 59)												
NOV., 1970 25...	.0	.006	.1	—	45	10	4	77	7.0	8	4.0	—
APR., 1971 06...	.1	.000	.00	—	36	9	5	62	6.2	10	7.5	—
01105888 - AGAWAM RIVER NEAR ELLISVILLE MASS (LAT 41 50 44 LONG 070 37 12)												
NOV., 1970 25...	.0	.006	.3	—	29	8	2	45	6.6	2	6.0	—
APR., 1971 06...	.1	.000	.00	—	26	8	0	44	6.8	2	8.5	—
01105890 - AGAWAM RIVER AT EAST WAREHAM MASS (LAT 41 45 40 LONG 070 40 40)												
NOV., 1970 25...	.1	.003	.00	—	28	8	0	45	6.4	7	6.5	—
APR., 1971 06...	.0	.000	.00	—	27	8	2	45	6.6	3	9.0	—
01105892 - WANKINCO RIVER AT WAREHAM MASS (LAT 41 45 58 LONG 070 43 20)												
NOV., 1970 25...	.0	.003	.02	—	49	14	7	88	6.4	17	6.5	—
APR., 1971 06...	.1	.000	.00	—	35	11	6	64	6.3	5	9.0	—
01105895 - WEWEANTIC RIVER AT SOUTH WAREHAM MASS (LAT 41 46 12 LONG 070 45 18)												
NOV., 1970 30...	.0	.006	.02	—	38	11	8	56	5.8	90	6.0	—
MAR., 1971 08...	.1	.000	.00	—	31	9	7	48	5.4	40	2.5	—
APR. 06...	.1	.000	.00	—	29	9	6	51	5.9	33	9.0	—
BLACKSTONE RIVER BASIN												
01112905 - BLACKSTONE RIVER NEAR MANVILLE R I (LAT 41 57 45 LONG 071 27 49)												
MAY , 1971 24...	.2	.20	.9	—	86	29	21	159	6.4	8	—	—
01113700 - CATAMINT BROOK NEAR DIAMOND HILL R I (LAT 41 59 00 LONG 071 24 44)												
OCT., 1970 01...	.2	.045	.4	—	54	24	8	86	6.8	3	12.0	—
01113750 - ABBOTT RUN NEAR SOUTH ATTLEBORO MASS (LAT 41 55 43 LONG 071 22 23)												
OCT., 1970 01...	.1	.006	.2	—	47	22	10	81	6.8	6	12.0	—

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
BLACKSTONE RIVER BASIN.--CONTINUED												
01113800 - MILLERS RIVER NEAR VALLEY FALLS R I (LAT 41 55 39 LONG 071 23 07)												
OCT., 1970 01...	.12	7.2	30	0	12	2.8	5.5	.6	.05	29	16	10
CONNECTICUT RIVER BASIN												
01161320 - DRY BROOK AT GILL, MASS. (LAT 42 38 31 LONG 072 29 53)												
SEP., 1971 21...	2.1	9.2	1400	130	9.5	2.4	5.7	1.5	—	20	11	8.9
01161340 - FOURMILE BROOK NEAR NORTHFIELD, MASS. (LAT 42 37 13 LONG 072 28 15)												
SEP., 1971 21...	2.1	11	120	0	4.5	1.1	3.2	1.3	—	17	8.5	2.3
01167100 - COUCH BROOK NEAR NORTH BERNARDSTON MASS (LAT 42 42 15 LONG 072 33 54)												
SEP., 1971 21...	.54	7.0	120	20	10	2.2	3.1	1.0	—	36	10	2.2
01167200 - FALLS RIVER AT BERNARDSTON MASS (LAT 42 41 15 LONG 072 32 43)												
SEP., 1971 21...	5.7	3.9	50	0	12	2.4	9.5	1.4	—	33	12	17
01170550 RED BROOK NEAR NORTH LEVERETT MASS (LAT 42 30 15 LONG 072 26 52)												
SEP., 1971 21...	.69	11	310	50	1.9	.4	2.2	.3	—	2	8.7	1.4
01170600 - LONG PLAIN BROOK NEAR LEVERETT, MASS. (LAT 42 27 28 LONG 072 31 23)												
SEP., 1971 21...	.48	8.7	440	60	16	2.0	6.6	.9	—	43	13	12
01170700 - ROARING BROOK AT EAST LEVERETT, MASS. (LAT 42 26 18 LONG 072 28 59)												
SEP., 1971 21...	3.6	12	50	0	3.0	.7	5.2	.7	—	7	8.2	5.1
01170905 - ROARING BROOK NEAR CONWAY, MASS. (LAT 42 28 19 LONG 072 40 21)												
SEP., 1971 24...	.78	9.0	60	10	17	1.4	2.0	1.4	—	54	6.9	1.8
01171270 - HOP BROOK TRIBUTARY AT DWIGHT MASS (LAT 42 19 44 LONG 072 27 47)												
SEP., 1971 24...	.18	9.5	480	0	8.8	2.2	7.8	1.3	—	22	12	14
01171290 - HOP BROOK AT SOUTH AMHERST MASS (LAT 42 20 31 LONG 072 29 38)												
SEP., 1971 24...	4.9	12	130	0	7.5	2.1	4.9	1.2	—	25	10	6.3
01171300 - FORT RIVER NEAR AMHERST, MASS. (LAT 42 21 28 LONG 072 30 17)												
SEP., 1971 23...	19	11	1100	80	8.8	2.4	6.4	1.5	—	23	14	8.7
01171400 - EAST BRANCH MILL RIVER AT WILLIAMSBURG, MASS. (LAT 42 23 58 LONG 072 43 55)												
SEP., 1971 [illegible]...	2.9	9.6	220	30	7.0	1.3	2.7	.9	—	26	6.4	2.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
BLACKSTONE RIVER BASIN.--CONTINUED												
01113800 - MILLERS RIVER NEAR VALLEY FALLS R I (LAT 41 55 39 LONG 071 23 07)												
OCT.. 1970 01...	.1	.002	.4	--	70	42	18	119	7.0	5	11.0	--
CONNECTICUT RIVER BASIN												
01161320 - DRY BROOK AT GILL, MASS. (LAT 42 38 31 LONG 072 29 53)												
SEP.. 1971 21...	.1	--	.6	--	65	34	11	104	7.1	--	18.5	8.2
01161340 - FOURPILE BROOK NEAR NORTHFIELD, MASS. (LAT 42 37 13 LONG 072 28 15)												
SEP.. 1971 21...	.1	--	.1	--	41	16	2	54	7.1	--	17.0	9.3
01167100 - COUCH BROOK NEAR NORTH BERNARDSTON MASS (LAT 42 42 15 LONG 072 33 54)												
SEP.. 1971 21...	.1	--	.2	--	54	34	5	87	7.5	--	15.0	9.6
01167200 - FALLS RIVER AT BERNARDSTON MASS (LAT 42 41 15 LONG 072 32 43)												
SEP.. 1971 21...	.0	--	.7	--	78	40	13	145	7.3	--	14.5	9.6
01170550 - RED BROOK NEAR NORTH LEVERETT MASS (LAT 42 30 15 LONG 072 26 52)												
SEP.. 1971 21...	.1	--	.00	--	27	6	5	28	5.9	--	13.0	9.6
01170600 - LONG PLAIN BROOK NEAR LEVERETT, MASS. (LAT 42 27 28 LONG 072 31 23)												
SEP.. 1971 21...	.0	--	.00	--	80	48	13	140	7.0	--	13.0	3.3
01170700 - ROARING BROOK AT EAST LEVERETT, MASS. (LAT 42 26 18 LONG 072 28 55)												
SEP.. 1971 21...	.1	--	.00	--	39	10	4	52	6.6	--	12.0	10.4
01170905 - ROARING BROOK NEAR CONWAY, MASS. (LAT 42 28 19 LONG 072 40 21)												
SEP.. 1971 24...	.0	--	.00	--	66	48	4	109	7.4	--	13.5	8.7
01171270 - HOP BROOK TRIBUTARY AT DWIGHT MASS (LAT 42 19 44 LONG 072 27 47)												
SEP.. 1971 24...	.0	--	.3	--	68	31	13	112	7.2	--	14.0	8.9
01171290 - HOP BROOK AT SOUTH AMHERST MASS (LAT 42 20 31 LONG 072 29 38)												
SEP.. 1971 24...	.1	--	.2	--	57	27	7	84	6.9	--	12.0	6.8
01171300 - FORT RIVER NEAR AMHERST, MASS. (LAT 42 21 28 LONG 072 30 17)												
SEP.. 1971 23...	.1	--	.2	--	65	32	13	104	6.9	--	17.0	8.9
01171400 - EAST BRANCH MILL RIVER AT WILLIAMSBURG, MASS. (LAT 42 23 58 LONG 072 43 55)												
SEP.. 1971 23...	.1	--	.00	--	43	23	2	65	7.2	--	12.0	10.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
CONNECTICUT RIVER BASIN.--CONTINUED												
01171450 - ROBERTS MEADOW BROOK NEAR WESTHAMPTON, MASS. (LAT 42 20 13 LONG 072 45 14)												
SEP., 1971 23...	2.1	11	9C	0	6.0	1.3	2.2	.7	---	24	6.6	1.2
01171500 - MILL RIVER AT NORTHAMPTON, MASS. (LAT 42 19 05 LONG 072 39 21)												
SEP., 1971 23...	26	8.1	33C	40	10	2.0	6.9	1.5	---	32	10	9.7
01171750 - NORTH BRANCH MANHAN RIVER TRIBUTARY NEAR SOUTHAMPTON, MASS. (LAT 42 15 49 LONG 072 44 12)												
SEP., 1971 22...	.22	13	8C	0	5.5	1.2	3.4	.6	.45	16	10	2.7
01171780 - MANHAN RIVER AT EASTHAMPTON,MASS (LAT 42 15 59 LONG 072 41 31)												
SEP., 1971 23...	28	10	42C	90	11	2.1	5.7	1.4	---	33	11	8.5
01171800 - BASSETT BROOK NEAR NORTHAMPTON, MASS. (LAT 42 18 09 LONG 072 41 16)												
SEP., 1971 23...	1.7	10	410	70	9.5	2.1	5.9	1.3	---	33	7.5	8.8
01171907 - BROAD BROOK AT ROCK VALLEY ST., HOLYOKE, MASS. (LAT 42 11 36 LONG 072 40 31)												
SEP., 1971 20...	.63	7.7	160	0	20	6.5	10	.6	---	67	12	22
01171950 - BACHELOR BROOK AT SOUTH HADLEY, MASS. (LAT 42 16 12 LONG 072 35 14)												
SEP., 1971 22...	66	5.5	67C	60	15	3.6	9.1	1.9	---	43	16	15
01171960 - MUDDY BROOK NEAR GRANBY, MASS. (LAT 42 13 51 LONG 072 30 53)												
SEP., 1971 22...	1.4	11	620	90	25	6.4	7.7	1.0	---	44	53	14
01177300 - NORTH BRANCH MILL RIVER NEAR WILBRAHAM, MASS. (LAT 42 07 02 LONG 072 28 18)												
SEP., 1971 20...	3.3	13	530	50	23	5.2	7.2	1.2	---	57	24	16
01183700 - PECCUSIC BROOK NEAR SPRINGFIELD, MASS. (LAT 42 03 56 LONG 072 32 24)												
SEP., 1971 20...	2.3	15	550	100	36	6.9	25	3.5	---	61	43	45
01184200 - STILL BROOK NEAR WEST AGAWAM, MASS. (LAT 42 02 31 LONG 072 41 00)												
SEP., 1971 20...	2.0	12	18C	40	32	7.7	7.6	2.7	---	63	51	14
ST. LAWRENCE RIVER BASIN												
04283300 - WINOOSKI RIVER NEAR EAST MONTPELIER, VT. (LAT 44 15 23 LONG 072 35 36)												
SEP., 1971 10...	--	3.5	--	--	35	3.1	4.7	1.4	--	108	10	7.4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM COBALT UNITS)	TEM-PERA-TURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
CONNECTICUT RIVER BASIN.--CONTINUED												
01171450 - ROBERTS MEADOW BROOK NEAR WESTHAMPTON, MASS. (LAT 42 20 13 LONG 072 45 14)												
SEP., 1971 23...	.0	--	.00	--	41	20	1	57	7.1	--	12.0	9.9
01171500 - MILL RIVER AT NORTHAMPTON, MASS. (LAT 42 19 05 LONG 072 39 21)												
SEP., 1971 23...	.0	--	.4	--	66	34	8	113	7.2	--	17.0	9.5
01171750 - NORTH BRANCH MANHAN RIVER TRIBUTARY NEAR SOUTHAMPTON, MASS. (LAT 42 15 49 LONG 072 44 12)												
SEP., 1971 22...	.1	--	.00	--	45	19	6	61	6.8	--	15.0	9.4
01171780 - MANHAN RIVER AT EASTHAMPTON,MASS (LAT 42 15 59 LONG 072 41 31)												
SEP., 1971 23...	.1	--	.5	--	68	36	9	110	7.2	--	15.0	9.6
01171800 - BASSETT BROOK NEAR NORTHAMPTON, MASS. (LAT 42 18 09 LONG 072 41 16)												
SEP., 1971 23...	.0	--	.8	--	65	32	5	102	7.2	--	14.0	9.3
01171907 - BROAD BROOK AT ROCK VALLEY ST., HOLYOKE, MASS. (LAT 42 11 36 LONG 072 40 31)												
SEP., 1971 20...	.0	--	.4	--	114	77	22	203	7.4	--	16.0	9.2
01171950 - BACHELOR BROOK AT SOUTH HADLEY, MASS. (LAT 42 16 12 LONG 072 35 14)												
SEP., 1971 22...	.1	--	.3	--	89	52	17	162	7.0	--	19.0	8.1
01171960 - MUDDY BROOK NEAR GRANBY, MASS. (LAT 42 13 51 LONG 072 30 53)												
SEP., 1971 22...	.0	--	.1	--	140	89	53	213	7.0	--	16.0	4.9
01177300 - NORTH BRANCH MILL RIVER NEAR WILBRAHAM, MASS. (LAT 42 07 02 LONG 072 28 18)												
SEP., 1971 20...	.0	--	.8	--	121	79	32	188	7.4	--	16.5	8.2
01183700 - PECOUSIC BROOK NEAR SPRINGFIELD, MASS. (LAT 42 03 56 LONG 072 32 24)												
SEP., 1971 20...	.1	--	4.9	--	226	118	68	381	7.0	--	16.0	6.5
01184200 - STILL BROOK NEAR WEST AGAWAM, MASS. (LAT 42 02 31 LONG 072 41 00)												
SEP., 1971 20...	.0	--	2.5	--	169	112	60	270	7.2	--	17.0	8.2
ST. LAWRENCE RIVER BASIN												
04283300 - WINOOSKI RIVER NEAR EAST MONTPELIER, VT. (LAT 44 15 23 LONG 072 35 36)												
SEP., 1971 10...	.0	--	.00	--	--	100	12	217	7.3	--	--	--

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)
MERRIMACK RIVER BASIN								
01092000 - MERRIMACK RIVER NEAR GOFFS FALLS N H (LAT 42 56 55 LONG 071 27 45)								
OCT., 1970 13...	2580	--	--	0	--	1	--	0
01093500 - MASSABESIC LAKE NEAR MANCHESTER N H (LAT 42 57 45 LONG 071 23 40)								
OCT., 1970 13...	--	62	--	0	--	2	--	0
01095450 - WACHUSETT RESERVOIR NEAR CLINTON MASS (LAT 42 24 15 LONG 071 41 25)								
OCT., 1970 08...	--	--	--	0	--	0	--	0
01097490 - SUDBURY RESERVOIR NEAR FRAMINGHAM MASS (LAT 42 18 00 LONG 071 27 00)								
OCT., 1970 08...	--	--	--	0	--	1	--	0
SAUGUS RIVER BASIN								
01102200 - BREEDS POND AT LYNN MASS (LAT 42 28 25 LONG 070 58 42)								
OCT., 1970 09...	--	--	--	0	--	0	--	1
MYSTIC RIVER BASIN								
01103020 - FRESH POND AT CAMBRIDGE MASS (LAT 42 23 00 LONG 071 08 39)								
OCT., 1970 07...	--	--	--	0	--	0	--	1
CHARLES RIVER BASIN								
01103370 - JAR BROOK NEAR HOLLISTON, MASS. (LAT 42 13 46 LONG 071 26 35)								
APR., 1971 22...	1.0	235	200	0	100	--	2	0
01103350 - BOGASTOW BROOK NEAR MILLIS MASS (LAT 42 11 01 LONG 071 23 27)								
APR., 1971 23...	22	177	178	0	40	--	2	2
TAUNTON RIVER BASIN								
01107240 - LITTLE QUITTACAS POND NEAR ROCHESTER MASS (LAT 41 47 14 LONG 070 54 53)								
OCT., 1970 12...	--	67	--	0	--	3	--	0
01109110 - NORTH WATUPPA POND NEAR FALL RIVER MASS (LAT 41 41 44 LONG 071 07 16)								
OCT., 1970 12...	--	74	--	0	--	2	--	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MERRIMACK RIVER BASIN							
01092000 - MERRIMACK RIVER NEAR GOFFS FALLS N H (LAT 42 56 55 LONG 071 27 45)							
OCT., 1970 13...	3	—	7	—	<.5	—	30
01093500 - MASSABESIC LAKE NEAR MANCHESTER N H (LAT 42 57 45 LONG 071 23 40)							
OCT., 1970 13...	2	—	7	—	<.5	—	60
01095450 - WACHUSETT RESERVOIR NEAR CLINTON MASS (LAT 42 24 15 LONG 071 41 25)							
OCT., 1970 08...	0	—	4	—	<.5	—	10
01097490 - SUDBURY RESERVOIR NEAR FRAMINGHAM MASS (LAT 42 18 00 LONG 071 27 00)							
OCT., 1970 08...	1	—	4	—	<.5	—	20
SAUGUS RIVER BASIN							
01102200 - BREEDS POND AT LYNN MASS (LAT 42 28 25 LONG 070 58 42)							
OCT., 1970 09...	0	—	3	—	<.5	—	20
MYSTIC RIVER BASIN							
01103020 - FRESH POND AT CAMBRIDGE MASS (LAT 42 23 00 LONG 071 08 39)							
OCT., 1970 07...	1	—	4	—	<.5	—	20
CHARLES RIVER BASIN							
01103370 - JAR BROOK NEAR HOLLISTON, MASS. (LAT 42 13 46 LONG 071 26 35)							
APR., 1971 22...	0	0	2	0	—	4	0
01103390 - BOGASTOW BROOK NEAR MILLIS MASS (LAT 42 11 01 LONG 071 23 27)							
APR., 1971 23...	0	30	7	10	—	2	20
TAUNTON RIVER BASIN							
01107240 - LITTLE QUITTACAS POND NEAR ROCHESTER MASS (LAT 41 47 14 LONG 070 54 53)							
OCT., 1970 12...	2	—	6	—	<.5	—	0
01109110 - NORTH WATUPPA POND NEAR FALL RIVER MASS (LAT 41 41 44 LONG 071 07 16)							
OCT., 1970 12...	2	—	7	—	<.5	—	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)
TENMILE RIVER BASIN								
01109400 - TENMILE RIVER NEAR EAST PROVIDENCE R I (LAT 41 49 40 LONG 071 20 45)								
OCT., 1970								
13...	--	450	--	0	--	1	--	0
BLACKSTONE RIVER BASIN								
01109550 - HOLDEN RESERVOIR NEAR HOLDEN MASS (LAT 42 17 46 LONG 071 52 02)								
OCT., 1970								
09...	--	62	--	0	--	1	--	0
01110500 - BLACKSTONE RIVER AT NORTHBRIDGE MASS (LAT 42 09 13 LONG 071 39 09)								
OCT., 1970								
09...	352	495	--	10	--	1	1	--
MOSHASSUCK RIVER BASIN								
01114000 - MOSHASSUCK RIVER AT PROVIDENCE R I (LAT 41 50 02 LONG 071 24 42)								
OCT., 1970								
13...	5.7	350	--	0	--	3	--	0
PAWTUXET RIVER BASIN								
01115450 - SCITUATE RESERVOIR NEAR HOPE R I (LAT 41 45 00 LONG 071 35 00)								
OCT., 1970								
13...	--	78	--	0	--	2	--	1
01116610 - PAWTUXET RIVER NEAR WARWICK R I (LAT 41 45 41 LONG 071 25 31)								
OCT., 1970								
13...	--	340	--	20	--	3	--	1
CONNECTICUT RIVER BASIN								
01131500 - CONNECTICUT RIVER NEAR DALTON N H (LAT 44 24 35 LONG 071 43 00)								
OCT., 1970								
13...	1580	--	--	0	--	0	--	0
01154500 - CONNECTICUT RIVER AT NORTH WALPOLE N H (LAT 43 07 35 LONG 072 26 15)								
OCT., 1970								
13...	9840	--	--	10	--	2	--	0
01175000 - QUABBIN RESERVOIR NEAR WEST WARE MASS (LAT 42 16 57 LONG 072 20 42)								
OCT., 1970								
08...	--	--	--	0	--	1	--	0
01182500 - COBBLE MT RESERVOIR NEAR WESTFIELD MASS (LAT 42 07 00 LONG 072 53 00)								
OCT., 1970								
09...	--	69	--	0	--	1	--	0

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
TENMILE RIVER BASIN							
01109400 - TENMILE RIVER NEAR EAST PROVIDENCE R I (LAT 41 49 40 LONG 071 20 45)							
OCT., 1970 13...	3	—	8	--	<.5	—	40
BLACKSTONE RIVER BASIN							
01109550 - HOLDEN RESERVOIR NEAR HOLDEN MASS (LAT 42 17 46 LONG 071 52 02)							
OCT., 1970 09...	0	--	9	--	<.5	—	20
01110500 - BLACKSTONE RIVER AT NORTHBRIDGE MASS (LAT 42 09 13 LONG 071 39 09)							
OCT., 1970 09...	17	--	17	--	<.5	--	220
MOSHASSUCK RIVER BASIN							
01114000 - MOSHASSUCK RIVER AT PROVIDENCE R I (LAT 41 50 02 LONG 071 24 42)							
OCT., 1970 13...	4	—	8	--	<.5	—	40
PAWTUXET RIVER BASIN							
01115450 - SCITUATE RESERVOIR NEAR HOPE R I (LAT 41 45 00 LONG 071 35 00)							
OCT., 1970 13...	4	--	5	--	<.5	—	10
01116610 - PAWTUXET RIVER NEAR WARWICK R I (LAT 41 45 41 LONG 071 25 31)							
OCT., 1970 13...	3	—	6	—	<.5	—	100
CONNECTICUT RIVER BASIN							
01131500 - CONNECTICUT RIVER NEAR DALTON N H (LAT 44 24 35 LONG 071 43 00)							
OCT., 1970 13...	0	--	4	--	<.5	--	30
01154500 - CONNECTICUT RIVER AT NORTH WALPOLE N H (LAT 43 07 35 LONG 072 26 15)							
OCT., 1970 13...	5	—	4	—	<.5	--	30
01175000 - QUABBIN RESERVOIR NEAR WEST WARE MASS (LAT 42 16 57 LONG 072 20 42)							
OCT., 1970 08...	1	—	2	--	<.5	—	0
01182500 - COBBLE MT RESERVOIR NEAR WESTFIELD MASS (LAT 42 07 00 LONG 072 53 00)							
OCT., 1970 09...	0	—	7	--	<.5	--	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-CHARGE (CFS)	SPECI-FIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)
HOUSATONIC RIVER BASIN								
01197500 - HOUSATONIC RIVER NEAR GREAT BARRINGTON MASS (LAT 42 13 55 LONG 073 21 19)								
OCT., 1970								
09...	123	375	—	0	--	0	—	0
ST. LAWRENCE RIVER BASIN								
04282000 - OTTER CREEK AT CENTER RUTLAND VT (LAT 43 36 13 LONG 073 00 49)								
OCT., 1970								
13...	283	--	--	0	--	3	--	1
APR., 1971								
27...	1320	--	--	--	--	6	--	--
04294500 - LAKE CHAMPLAIN AT BURLINGTON VT (LAT 44 28 52 LONG 073 13 27)								
OCT., 1970								
15...	--	--	--	0	--	0	--	0

CHEMICAL ANALYSES, MINOR ELEMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

DATE	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
HOUSATONIC RIVER BASIN							
01197500 - HOUSATONIC RIVER NEAR GREAT BARRINGTON MASS (LAT 42 13 55 LONG 073 21 19)							
OCT., 1970							
09...	1	--	4	--	<.5	--	30
ST. LAWRENCE RIVER BASIN							
04282000 - OTTER CREEK AT CENTER RUTLAND VT (LAT 43 36 13 LONG 073 00 49)							
OCT., 1970							
13...	4	--	50	--	<.5	--	70
APR., 1971							
27...	--	--	9	--	--	--	--
04294500 - LAKE CHAMPLAIN AT BURLINGTON VT (LAT 44 28 52 LONG 073 13 27)							
OCT., 1970							
15...	3	--	13	--	<.5	--	30

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF GROUND WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

MAJOR AQUIFER: C3, UPPER CAMBRIAN; QG, QUATERNARY PLEISTOCENE; Y, PALEOZOIC; OO, OUTWASH DEPOSITS; 1G, SAND AND GRAVEL; 1L, LIMESTONE AND DOLOMITE; 2I, IGNEOUS INTRUSIVES.

LOCAL NUMBER		WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEM-PERA-TURE (DEG C)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	CAL-CIUM (CA) (MG/L)	MAGNE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)
					MASSACHUSETTS							
					ADAMS							
AES	2	423651N0730715.1	1L	--	10-07-7C	--	4.8	10	0	50	16	2.6
AEW	115	423907N0730632.1	QG1G	158	10-07-70	--	6.5	10	0	28	8.1	1.5
AEW	128	423708N0730726.1	QG	85	10-07-70	--	5.1	10	0	56	18	15
					CHESIRE							
CJW	35	423134N0731127.1	C31L	110	10-13-7C	--	4.8	0	0	1.0	.0	88
CJW	38	423206N0731099.1	C31L	182	10-16-70	--	5.7	10	0	18	6.1	.6
					FRANKLIN							
F2W	1	420441NC712503.1	QG	40	05-03-71	9.0	11	10	80	12	2.4	10
F2W	30	420515N0712256.1	QG	27	05-03-71	8.0	8.3	0	0	4.5	1.0	3.6
					HINGHAM							
HOS	1	421157N0705038.1	--	--	10-19-70	10.0	15	10	0	6.0	1.6	7.9
					MARSHFIELD							
MHS	1	420845N07C4527.1	--	--	10-05-70	--	14	--	0	4.0	1.1	7.3
MHW	163	420845N0704527.2	--	25	10-19-70	9.0	14	240	0	3.8	.9	7.0
					MILFORD							
MWW	44	420807N0712859.1	Y 2I	200	05-03-71	11.0	14	0	0	10	1.6	7.7
MWW	45	420806N0712858.1	QG	23	05-C3-71	7.5	16	0	60	27	2.6	6.4
MWW	46	421045N0713211.1	QG	16	05-04-71	9.0	6.6	10	0	15	2.0	46
MWW	47	421C46N0713148.1	Y 2I	100	05-04-71	12.0	12	10	160	18	3.0	8.9
					MILLIS							
MYW	42	420938N0712015.1	QG	4	05-02-71	9.0	12	0	0	17	4.0	11
					NEEDHAM							
NEW	1	421618N0711314.1	QG	24	05-02-71	9.0	12	0	0	22	5.6	21
					NCRTH ADAMS							
NOW	56	424C36N0730605.1	QG1G	110	11-05-70	--	6.1	0	0	43	13	15
					PLYMOUTH							
PWS	2	415720N0703947.1	--	--	10-19-70	10.5	12	0	0	7.7	3.3	13
					WESTON							
XAW	47	422038N0711640.1	QG	29	05-02-71	8.0	6.1	100	0	11	1.4	3.6
					WILLIAMSTOWN							
XLW	97	424304N0731123.1	QG1G	150	10-14-70	--	5.6	0	0	29	8.3	.6
XLW	98	424417N0731252.1	QG1G	80	10-16-70	--	4.4	20	0	23	5.6	1.5
					RHODE ISLAND							
					CUMBERLAND							
CUW	409	415757N0712751.1	QGOO	75	05-24-71	9.0	7.6	30	1800	16	3.5	22

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES OF GROUND WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--CONTINUED

LOCAL NUMBER	POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS)	HARD- NESS (CA,MG) (MG/L)	NONCAR- BCNATE HARD- NESS (MG/L)	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	PH
MASSACHUSETTS												
ADAMS												
AES 2	.6	240	0	10	9.6	.0	4.6	216	191	0	425	8.0
AEW 115	1.2	126	0	9.5	2.1	.0	3.0	122	104	0	228	8.1
AEW 128	1.0	244	0	15	33	.2	6.2	270	214	14	565	8.0
CHESIRE												
CJW 35	.0	198	0	16	9.6	.0	11	227	2	0	386	8.2
CJW 38	.5	82	0	8.5	.1	.0	3.7	83	70	3	153	8.2
FRANKLIN												
F2W 1	1.1	29	0	8.2	22	.3	2.3	84	40	16	144	6.8
F2W 30	1.2	9	0	9.6	5.0	.0	2.4	40	15	8	63	6.3
HINGHAM												
HOS 1	.4	20	0	7.5	9.3	.2	1.2	59	22	5	86	6.9
MARSHFIELD												
MHS 1	.6	14	0	4.5	11	.0	1.3	51	14	3	67	6.7
MHW 163	.6	15	0	4.0	10	.1	1.3	49	13	1	66	6.6
MILFORD												
MWW 44	2.0	43	0	4.3	4.0	.6	.7	66	32	0	100	8.0
MWW 45	1.8	54	0	20	23	.2	1.2	125	78	34	214	6.8
MWW 46	5.8	10	0	17	83	.1	4.3	185	46	37	368	6.0
MWW 47	1.6	33	0	9.2	8.1	1.0	34	112	57	30	173	6.4
MILLIS												
MYW 42	2.5	20	0	19	24	.1	19	118	59	42	200	6.6
NEEDHAM												
NEW 1	1.7	19	0	25	54	.0	13	164	78	62	300	6.6
NORTH ADAMS												
NOW 56	1.6	172	0	12	29	.0	3.4	207	160	20	385	8.1
PLYMOUTH												
PWS 2	1.6	18	0	9.5	24	.1	8.3	88	32	18	155	6.2
WESTON												
XAW 47	1.0	18	0	12	7.7	.0	6.2	58	33	18	100	6.5
WILLIAMSTOWN												
XLW 97	.5	138	0	2.0	.0	.0	.6	109	106	0	213	8.2
XLW 98	.4	100	0	8.5	.2	.0	.5	93	80	0	182	8.1
RHODE ISLAND												
CUMBERLAND												
CUW 409	3.0	40	0	23	31	.1	6.2	133	54	22	241	6.9

CHEMICAL ANALYSES OF GROUND WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--CONTINUED

LOCAL NUMBER		WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEMPERATURE (DEG C)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)
VERMONT												
EAST MONTPELIER												
EBW	46	441620N0722724.1	QGOD	86	01-06-71	--	12	--	--	65	6.4	10
EBW	46	441620N0722724.1	QGOD	86	01-07-71	--	12	--	--	65	6.4	9.3
EBW	46	441620N0722724.1	QGOD	86	01-08-71	--	.1	--	--	64	6.4	9.2
EBW	47	441620N0722725.1	QGOD	60	04-28-71	--	--	160	430	--	--	--
NORTHFIELD												
NLW	13	440951N0723917.5	QGIG	98	03-16-71	7.5	6.4	10	0	22	3.8	7.6
NLW	13	440951N0723917.5	QGIG	98	03-17-71	7.5	6.4	10	0	22	3.8	7.8
NLW	13	440951N0723917.5	QGIG	98	03-18-71	7.5	6.4	10	0	22	3.9	7.8
POWNAL												
PQW	2	424625N0731434.1	QGIG	58	12-01-70	--	8.5	0	40	56	15	9.1

LOCAL NUMBER		POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH
VERMONT													
EAST MONTPELIER													
EBW	46	3.2	220	0	19	18	.0	.0	242	189	8	419	7.9
EBW	46	3.1	215	0	19	18	.1	.2	239	189	12	415	8.0
EBW	46	2.9	218	0	19	20	.0	.0	229	186	7	413	7.9
EBW	47	--	--	--	--	--	--	--	--	--	--	--	--
NORTHFIELD													
NLW	13	.9	53	0	14	18	.1	4.3	103	70	27	188	6.9
NLW	13	.9	54	0	14	18	.0	4.6	104	70	26	190	7.2
NLW	13	.9	53	0	14	18	.0	4.6	104	71	27	191	6.8
POWNAL													
PQW	2	.5	180	0	46	30	.0	.1	253	201	54	488	8.0

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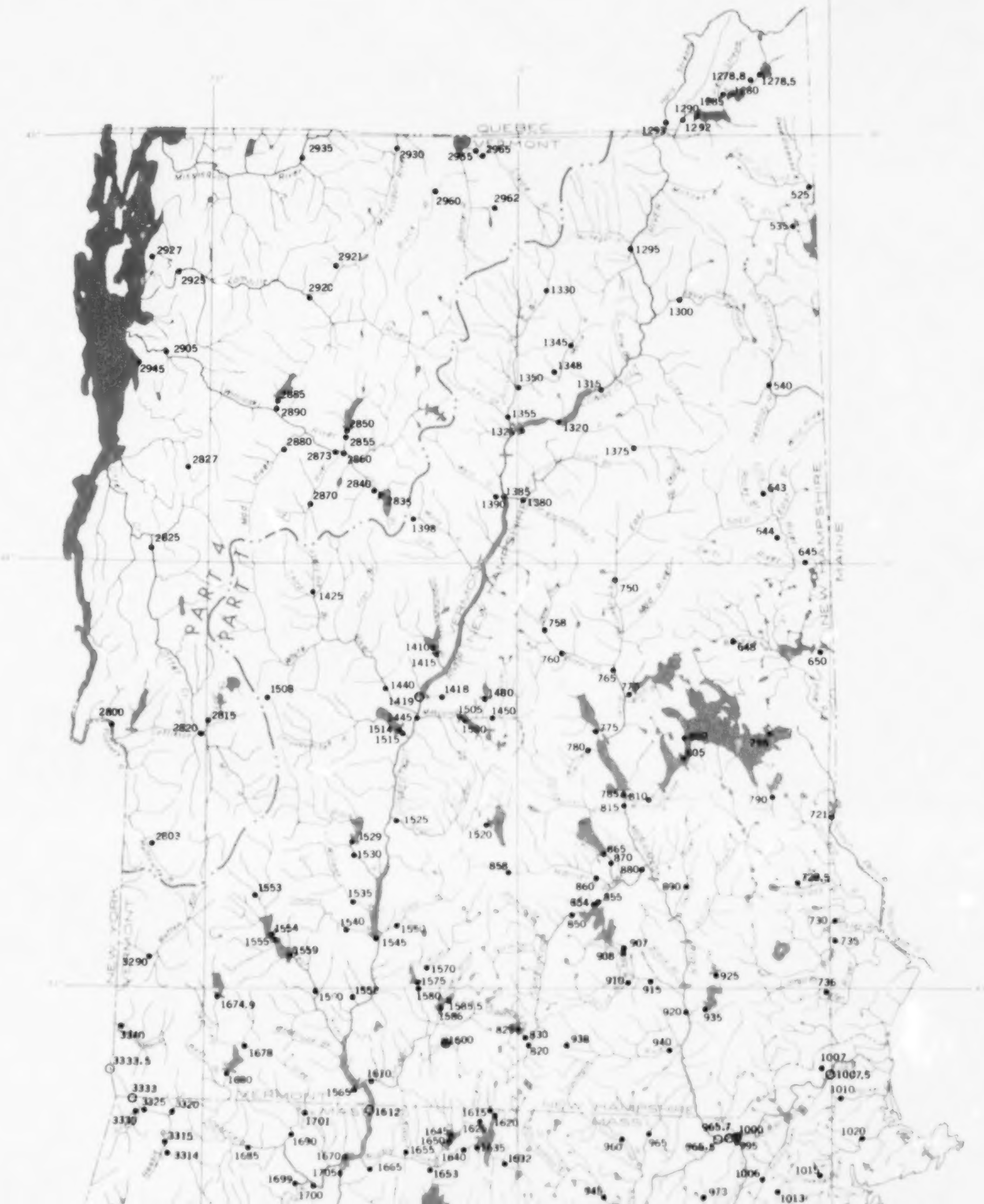
QUEBEC
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NEW HAMPSHIRE
MAINE
NEW YORK
MASS
PART A
PART II

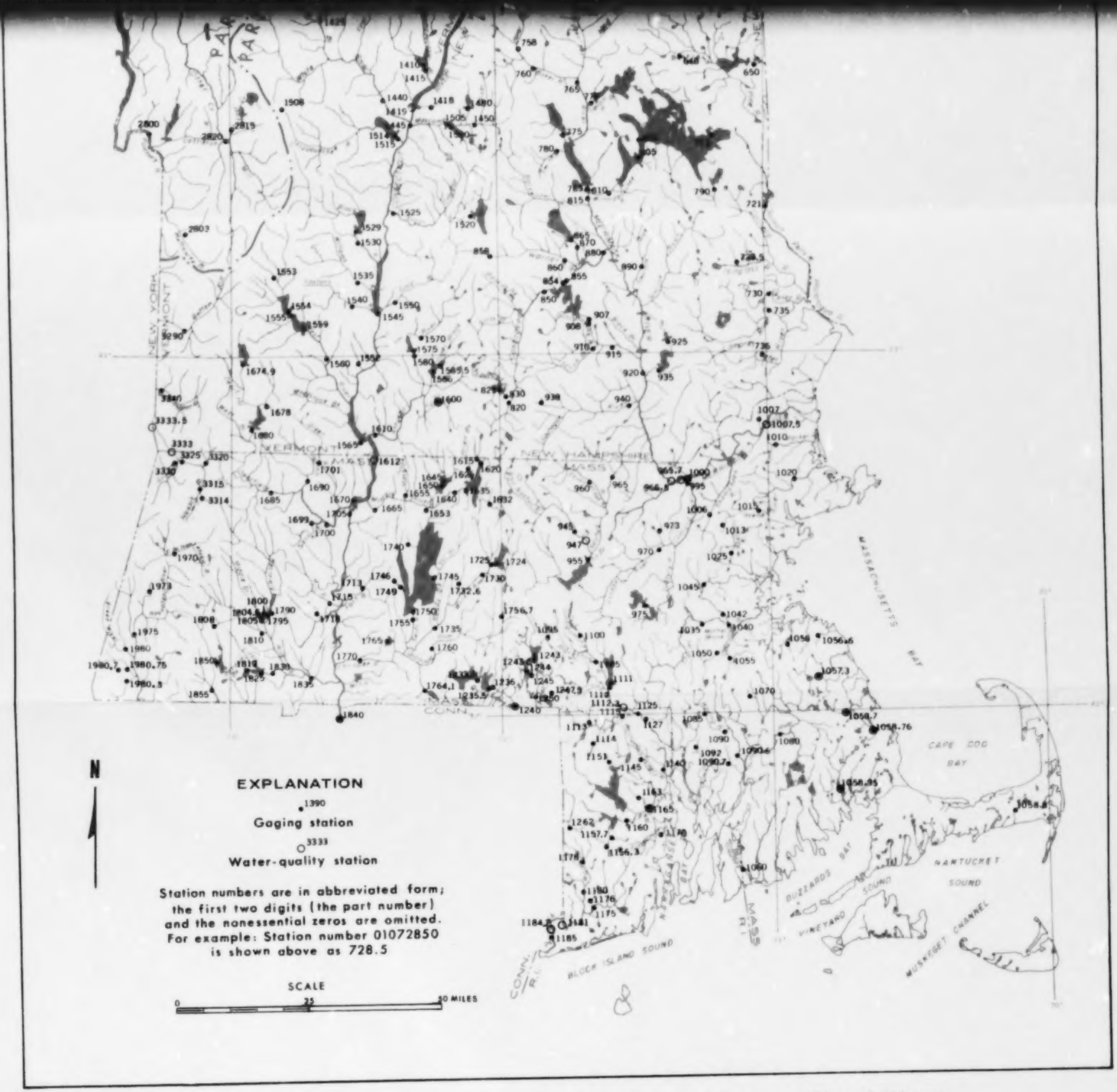
EXPLANATION
1390
Gaging station
3333
Water-quality station
Station numbers are in abbreviated form; the first two digits (the part number) and the nonessential zeros are omitted. For example: Station number 01072850 is shown above as 728.5
SCALE
0
25
50 MILES
N
NEW YORK
VERMONT
NEW HAMPSHIRE
MASS
CONN
R.I.
MASSACHUSETTS BAY
CAPE COD BAY
BUZZARDS BAY
VINEYARD SOUND
NANTUCKET SOUND
MUSKEGET CHANNEL
BLOCK ISLAND SOUND

Plate 1. Location of gaging stations and water-quality stations